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HECTOR APT, FARGO, NORTH DAKOTA. REVISED UNIFORM SUMMARY OF SUR--ETC(U)
JAN 82

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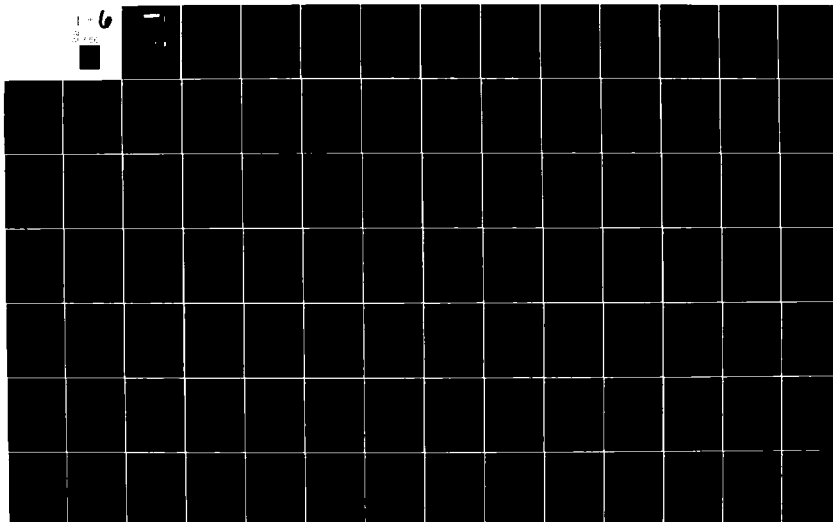
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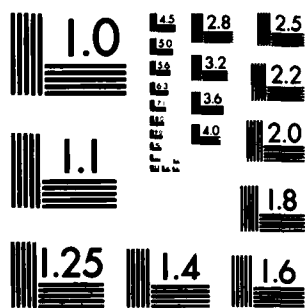
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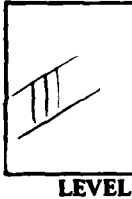
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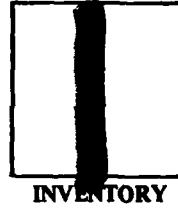
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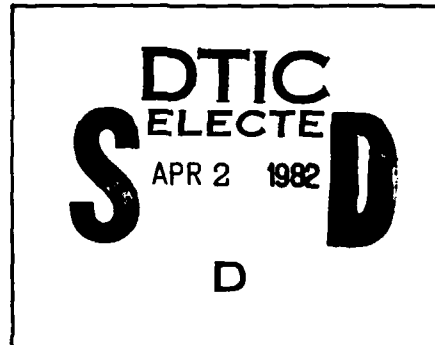
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REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

HECTOR AFB FARGO ND
N 46 54 W 096 48 FLD ELEV 899 FT PAR WCAP #14914
WAC #72753

PARTS A-F
FOR FROM HOURLY OBS: JUN 73 - MAY 81

FOR FROM DAILY OBS: JAN 48 - DEC 54, JAN 66 - MAY 81

TIME CONVERSION GMT TO LST: -6

JAN 11 1982

FEDERAL BUILDING

ASHEVILLE, N. C.

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Wayne E. McCollom
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FOR THE COMMANDER

WALTER S. BURGMANN
AWS Scientific and Technical
Information Officer (STINFO)

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 82/001	2. GOVT ACCESSION NO. AD-A113 156	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Hector APT, Fargo, North Dakota		5. TYPE OF REPORT & PERIOD COVERED Final rept.															
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for Hector APT, Fargo, North Dakota It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature; means and standard deviations of dry-bulb, wet-bulb (over)																	

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

North Dakota

Hector APT, North Dakota

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those records or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day's observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Each section is a brief description of the data comprising each part of the revised Uniform Summary of Surface Weather Observations and the manner of presentation. Observations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV (DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

SEPTEMBER _____

DECEMBER _____

STATION NO ON SUMMARY 14914	STATION NAME Fargo, North Dakota, Hector Fld	LATITUDE N 46 54	LONGITUDE W 096 48	FIELD ELEV (FT) 899 ft	CALL SIGN FAR	WMO NUMBER 72753
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STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	MT. BARO.	
	Hector Muni Apt, Fargo ND established Jul 01, 1934 Hector Apt, Fargo ND	WBAS	Jul 34	20 Dec 36	46 54 N	096 48 W	899 ft	899 ft	24
		Same	20 Dec 36	Nov 53	Same	Same	Same	913 ft	24
		Same	Nov 53	Aug 57	Same	Same	Same	912 ft	
		Same	Aug 57	Dec 64	Same	Same	900 ft	Same	
		Same	Jan 65	07 Apr 65	Same	Same	Same	911 ft	
		Same	07 Apr 65	Jan 80	Same	Same	Same	Same	
		Same	Jan 80	May 81	Same	Same	899 ft	NA	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
	Jan 48 to Oct 53	Located on roof	anemometer	NA	47 ft	
	Nov 53 to 25 Jun 61	Located on Tower	F420B	NA	86 ft	
	26 Jun 61 to 10 Mar 63	Located 1800 ft NNW of adm Bldg	F420C	NA	20 ft	
	11 Mar 63 to Dec 68	Located 1500 ft NW of Adm Bldg	Same	NA	Same	

NUMBER OF STATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
	Dec 68	Located on Field	F420	NA	20 ft	
	15 Dec69	Located on Field	F420	F312	20 ft	gust recorder commissioned
	to					
	25 Mar81	Same	Same	Same	Same	

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

AL CLIMATOLOGY BRANCH
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 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1-14 STATION HECTOR APT FARGO ND 74-81 YEARS JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-01			1.5	25.0		25.7	5.6	.2	8.6	.4	14.5	744
	03-05			.9	25.7		26.3	5.2	.4	6.6	.4	14.1	744
	06-08			.4	24.4		24.8	7.4	.4	10.6	.4	18.3	743
	09-11			.4	23.3		23.7	10.2	1.3	11.6	.8	22.4	744
	12-14		.4	.4	22.2		22.6	7.9	.7	14.1	1.1	22.4	744
	15-17			1.1	19.0		19.7	6.7	.3	11.6	1.3	18.6	743
	18-20		.1	.3	24.9		25.4	4.2		8.7	.9	12.7	744
	21-23		.1	.8	25.0		25.5	5.8	.1	7.3	.7	13.4	744
TOTALS			.1	.8	23.7		24.2	6.6	.4	10.2	.8	17.1	5950

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U. S. AIR FORCE
 CLIMATE BRANCH
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1. STATION 14 SECTION APT FARGO ND 74-81 YEARS 14 MONTH 14

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-23		.4	.7	24.9		25.8	5.3	.3	5.2		11.6	678
	03-05		.4	.6	27.6		26.3	5.4		5.5		11.4	678
	06-08		.4	.4	28.2		28.6	8.4		5.2		13.6	678
	09-11		.1	.7	25.8		27.3	11.0	.3	8.6	.4	17.0	678
	12-14		.6	.9	21.4		22.1	5.8	1.0	10.6	.4	17.1	678
	15-17	.1	.4	1.0	17.0		18.1	4.1	.9	8.3	.7	14.2	678
	18-20				18.6		18.6	4.3	.6	5.2	.6	13.2	678
	21-23		.1	.3	21.8		22.0	3.7	.1	4.4		8.0	678
TOTALS		.0	.3	.6	23.3		23.8	6.2	.4	6.6	.3	13.0	5424

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 AFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 STATION APT FARGO ND 74-81 MA-
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		2.7	.5	12.5		15.5	6.9		1.6		6.5	744
	03-05		3.0	.5	13.6		17.1	9.0		2.4		11.3	744
	06-08	.1	2.4	.5	13.3		16.3	12.6	.1	2.4		15.1	744
	09-11		3.0	.9	13.8		16.9	10.5	.6	3.4	.3	14.9	744
	12-14		3.0	.9	12.9		16.1	7.8	1.2	3.2	.8	12.5	744
	15-17		3.1	.8	12.6		16.5	7.0	1.3	2.4	.8	11.8	744
	18-20		3.9	1.2	12.4		15.9	6.7	1.7	2.8		10.6	744
	21-23		3.1	.3	13.3		16.2	6.2	.3	2.0		8.2	743
TOTALS		.0	3.1	.7	13.1		16.3	8.3	.7	2.6	.2	11.6	5951

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U.S. AIR FORCE
 CLIMATE BRANCH
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WEATHER CONDITIONS

1 14 STATION NAME: FARGO ND 74-81 YEARS: 1974 MONTH: APR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	10-02	.4	4.3		3.8		11.7	7.1	.1		.4	7.6	720
	13-05	.4	5.1		4.6		12.1	7.1			.3	7.4	720
	16-08	.6	7.6	.1	4.4		12.2	12.2		.6	.3	13.1	720
	19-11	.1	7.6	.1	3.9		11.4	9.0	1.7	1.3	1.1	11.9	720
	12-14		6.9		3.3		11.5	6.4	.6	.6	1.1	8.6	720
	15-17	.1	6.1		2.1	.3	10.0	4.4	.4		1.0	6.6	720
	18-21	.3	7.9		1.8		11.7	5.0	.7			5.7	720
	21-23	.7	10.6		2.6		13.2	5.1	.3		.1	5.4	720
TOTALS		.3	6.7	.0	3.3	.0	11.7	7.0	.4	.3	.5	6.2	5760

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JOINT CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 HECTOR APT FARGO ND 74-81 MAY
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.9	6.3		.7		9.0	3.1	.4			3.6	744
	03-05	.4	9.0		.4		9.3	5.6	.1			5.9	744
	06-08	.3	6.7				8.7	7.1	.9			8.1	744
	09-11		7.0		.1		7.1	3.4				3.4	744
	12-14	.3	5.8				5.8	3.0	1.1		.1	3.0	744
	15-17	.8	6.6				6.5	2.3	.3		.1	2.6	743
	18-20	1.3	7.7				7.7	2.3	.8			3.1	741
	21-23	2.4	10.7		.3		10.9	.9	.1		.1	1.2	740
TOTALS		.8	8.5		.2		8.1	3.5	.5		.2	4.0	5944

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WEATHER CONDITIONS

1 14 STATION SECTOR APT FARGO ND 73-80 YEARS JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-07	2.5	6.3				6.3	.6	.1		.1	1.1	720
	08-05	2.4	6.7				6.7	4.4				4.4	720
	06-08	2.4	7.1				7.1	5.3	.7			5.5	720
	09-11	1.5	6.1				8.1	1.7	.7		.1	2.5	720
	12-14	1.4	6.5				6.5	.6	.1			.7	720
	15-17	1.7	6.6				6.6	.4				.4	720
	18-20	2.2	6.3				6.3	.7	.3		.1	1.1	720
	21-23	2.8	6.3				6.3	.3				.3	720
TOTALS		2.1	6.7				6.7	1.8	.2		.2	2.5	5760

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WEATHER CONDITIONS

1 JUL 14 STATION HECTOR APT FARGO ND 73-80 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-01	2.3	3.6			.1	3.6	.9	.3			1.2	744
	03-05	2.4	4.2				4.2	4.3	.3			4.6	744
	06-08	1.3	4.3			.1	4.8	5.9	2.8			6.9	744
	09-11	1.3	3.6				3.6	1.3	3.2			4.3	744
	12-14	1.2	3.1				3.1	.3	1.6			1.9	744
	15-17	2.4	5.0				5.0	.9	1.3			2.3	744
	18-20	1.1	4.0				4.0	.7	1.1		.1	1.9	744
	21-23	2.4	2.7				2.7	.4	.9			1.3	744
TOTALS		1.8	3.9			.0	3.9	1.8	1.3		.0	3.1	5052

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WEATHER CONDITIONS

1 14 STATION HECTOR APT FARGO ND 73-80 YEARS AUG MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	1.3	5.5				5.5	2.6	.1			3.3	744
	03-05	2.4	6.3				6.3	7.1				7.1	744
	06-08	1.7	6.7				6.7	11.2	.7			11.9	744
	09-11	.9	5.8				5.8	6.0	.7			6.6	744
	12-14	1.1	7.7				7.7	3.0	1.5			4.3	744
	15-17	1.3	6.6				6.6	2.6	.2			2.6	744
	18-20	2.7	6.5				6.5	1.3	1.3		.1	2.0	744
	21-23	2.4	4.8				4.8	.7	.7			1.3	744
TOTALS		1.7	6.5				6.5	4.3	.7		.0	5.0	5952

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

JET CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1-14 STATION PECTOR APT FARGO ND 73-80 YEARS SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-01	.6	4.6				4.6	3.6				3.6	720
	02-03	.6	4.9				4.9	4.9				4.9	720
	06-07	.7	6.6				6.6	7.6	.4			6.1	720
	09-11	1.0	6.5				6.5	5.3				5.3	720
	12-14	.3	7.2				7.2	2.5				2.5	720
	15-17	.4	7.2				7.2	2.2				2.2	720
	18-20	.7	6.1				6.1	3.2	.1			3.3	720
	21-23	.7	6.1				6.1	2.8				2.8	720
TOTALS		.6	6.9				6.9	4.0	.1			4.1	5760

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 PECTOP APT FARGO ND 73-87 OCT
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.1	6.0		.7		6.7	3.1	.1			3.0	744
	03-05		5.6		1.2		6.9	4.8	.4			5.2	744
	06-08		5.0		1.1		5.9	8.1	.5			8.6	744
	09-11		5.4		2.2		6.9	7.4	1.2			8.2	744
	12-14	.3	7.4		2.4		6.6	5.6	1.2		.4	7.3	744
	15-17	.1	6.7		1.2		7.9	5.6	.3		.4	6.2	744
	18-20	.1	7.1		2.6	.1	8.6	4.6	.1		.4	5.1	743
	21-23	.1	5.6		2.4		7.1	1.6	.4	.4	.1	2.6	744
TOTALS		.1	6.1		1.7	.0	7.3	5.1	.6	.1	.2	5.9	5951

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

USAFETAC FORM 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1. J. L. CLIMATECLOGY BRANCH
 2. AFETAC
 3. WEATHER SERVICE/MAC

WEATHER CONDITIONS

1. 1- STATION 73-87 YEARS NOV MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-01		1.4	1.1	14.0		15.3	6.8	.1	1.9		8.9	720
	02-03		2.5	.4	14.3		15.7	6.1	.1	2.1		8.0	720
	04-05		2.5	.6	13.9		15.1	7.6	.1	1.0	.1	8.9	720
	06-11		2.4	.3	13.9		15.7	11.1	.8	1.9	.4	14.2	720
	12-14		1.9		11.5		12.0	7.4	.3	2.1		9.7	720
	15-17		2.2	.4	9.9		11.4	4.9	.0	2.1		7.8	720
	18-20		1.4	.7	12.5		13.5	4.2	.4	1.7		6.3	720
	21-23		1.3	.7	14.0		15.6	4.9	.4	1.7		7.0	719
TOTALS			2.0	.5	13.0		14.8	6.6	.4	1.8	.1	8.9	5759

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 STATION APT FARGO ND 73-80 YEARS DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		.3	1.9	19.5		21.5	11.3	.3	3.5		15.1	744
	03-05		.5	2.2	14.3		21.7	13.4	.4	2.7		16.5	744
	06-08		.5	2.2	20.7		23.5	14.4		4.0		15.4	744
	09-11		.6	1.3	25.0		27.0	16.3		4.6		20.8	744
	12-14		.8	.9	23.0		24.5	12.2	.5	5.8	.1	16.5	744
	15-17		1.3	1.1	18.3		20.3	12.4	.4	5.0	.8	18.5	744
	18-20		.7	1.1	16.1		19.6	9.9	.1	3.5	.4	14.0	744
	21-23		.1	2.0	17.9		19.6	9.4		3.3		13.0	744
TOTALS			.7	1.6	20.1		22.1	12.4	.2	4.1	.2	15.9	5952

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

NATIONAL CLIMATOLOGY BRANCH
 USFETAC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 HECTOR APT FARGO ND 73-81 ALL
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		.1	.0	23.7		24.2	6.6	.4	10.2	.8	17.1	5950
FEB		.0	.3	.6	23.3		23.8	6.2	.4	8.6	.3	13.0	5424
MAR		.0	0.1	.7	13.1		15.3	8.3	.7	2.6	.2	11.6	5951
APR		.3	8.7	.0	3.3	.0	11.7	7.0	.4	.3	.5	8.2	5760
MAY		.8	8.0		.2		8.1	3.5	.5		.0	4.0	5744
JUN		2.1	6.7				6.7	1.8	.2		.0	2.0	5760
JUL		1.8	3.9			.0	3.9	1.8	1.3		.0	3.1	5952
AUG		1.7	6.5				6.5	4.3	.7		.0	5.0	5952
SEP		.6	6.9				6.9	4.0	.1			4.1	5760
OCT		.1	6.1		1.7	.0	7.3	5.1	.6	.1	.2	5.9	5951
NOV			0.0	.5	13.0		14.8	6.6	.4	1.8	.1	8.9	5759
DEC			.7	1.6	20.1		22.1	12.4	.2	4.1	.2	16.9	5952
TOTALS		.6	4.4	.4	8.2	.0	12.7	5.6	.5	2.1	.2	8.3	70115

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than $5/8$ mile.

USAF METEOROLOGICAL BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS** XX
XXXXXXXXXXXXXXXXXXXXX
ATMOSPHERIC PHENOMENA

1964 STATION APT FARGO ND 46-64, 66-81 ALL
STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		6.4	6.1	68.5		70.4	22.5	7.1	34.5	.6	51.2	1023
FEB		.1	1.3	6.1	59.9		63.2	26.1	7.9	23.7	.3	46.8	921
MAR		.9	17.2	5.8	47.9		55.2	27.5	6.3	12.5	.5	39.5	1023
APR		4.0	36.1	1.2	22.4	.7	49.9	20.0	3.3	3.4	.5	24.2	990
MAY		12.2	45.1		3.4	1.2	49.5	18.4	2.2	.2	.1	19.5	1023
JUN		25.2	53.1			2.1	53.1	16.6	2.4			17.2	963
JUL		27.3	47.4			1.3	47.4	12.2	2.9			13.6	992
AUG		20.9	44.7			1.7	44.7	17.3	4.2		.1	19.5	992
SEP		9.9	40.6		.3	.2	40.6	17.6	1.9			16.3	963
OCT		2.7	32.2	.7	10.6	.1	37.0	17.3	5.1	.6		20.1	967
NOV		.3	19.0	5.9	41.2		50.4	21.6	5.3	6.0		28.6	949
DEC		.1	12.7	11.7	62.4		65.5	29.8	5.8	21.7		48.6	991
TOTALS		8.6	30.8	3.3	26.4	.6	52.3	20.6	4.5	8.6	.2	26.9	11811

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APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

2

GLOBAL CLIMATOLOGY BRANCH
NOAA/ETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

14914 STATION HECTOR APT FARGO ND STATION NAME 48-64, 66-81 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	29.8	42.0	6.5	12.0	4.8	3.2	1.3	.4						28.2	1023	.60	1.76	.09
FEB	36.9	38.3	7.2	10.0	4.1	1.9	1.3	.3						24.8	932	.46	1.74	.03
MAR	43.9	33.2	4.9	7.5	2.8	4.4	2.2	1.0	.1					22.9	1023	.84	2.21	.03
APR	50.1	21.4	3.5	7.2	4.6	5.9	3.7	2.8	.7					28.5	990	1.78	4.14	.02
MAY	57.5	18.4	3.2	7.7	4.7	6.2	4.6	3.6	1.0	.1				31.1	1023	2.33	7.30	.46
JUN	46.9	18.6	3.0	7.1	4.7	6.8	7.0	4.4	1.1	.4				34.5	960	3.07	9.40	.58
JUL	52.6	16.7	4.0	6.4	3.8	6.1	4.0	3.3	2.4	.5				30.6	992	3.28	8.42	.42
AUG	55.3	16.5	3.5	6.7	3.0	5.7	4.6	2.5	1.9	.1				29.1	992	2.51	6.46	.38
SEP	59.4	15.4	3.5	6.4	4.6	5.0	2.6	2.2	.7	.2				25.2	960	1.76	6.13	.13
OCT	52.8	17.3	2.9	4.5	2.7	4.9	2.1	1.9	.7					19.9	992	1.33	4.42	.08
NOV	49.9	32.0	3.3	6.5	2.1	3.6	1.4	.7	.5					18.1	960	.78	4.58	.04
DEC	35.0	39.2	5.8	9.4	4.8	4.1	1.1	.5						25.8	992	.63	2.19	.04
ANNUAL	47.8	25.7	4.3	7.6	3.9	4.8	3.0	2.0	.8	.1				26.5	11839	19.37		

ALPACAL CLIMATOLOGY BRANCH
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AT WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 48-64, 66-81
STATION STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48	.33	.57	.28	1.14	.55	1.69	1.58	.25	.36	.29	.31	.11	1.69
49	.68*	.21	.23	.22	.99	.88	1.63	.61	.21	1.12	.20	.67	1.63
50	.32	.12	1.07	.34	1.17	.94	.16	.16	.59	.48	.25	.16	1.17
51	.15	.57	.32	.23	.64	.78	1.86	1.53	.37	.62	.24	.52	1.86
52	.57	.10	.27	.18	.24	.53	3.93	1.73	.15	.05	1.25	.10	3.93
53	.11	.21	.17	1.04	.70	2.05	.39	1.30	.44	.24	.48	.22	2.05
54	.12	.01	.27	.38	.35	.92	.85	1.06	1.13	.25	.05	.16	1.13
55	.35	.42	.17	.11	.66	.50	1.67	.28	.40	.13	.17	.25	1.67
56	.27	.13	.58	.85	.87	.81	1.36	.58	.60	.65	.71	.09	1.36
57	.09	.10	.34	.90	.64	2.77	1.01	.66	3.37	.98	.63	.03	3.37
58	.06	.06	.01	.54	.35	1.16	2.70	1.77	.23	.59	.52	.02	2.70
59	.11	.09	.06	.25	.93	1.51	2.18	1.19	.33	.78	.19	.29	2.18
60	.35	.03	.03	1.61	.69	.62	1.39	1.68	.59	1.06	1.62	.73	1.68
61	.35	.35	.34	.34	.93	.50	1.05	1.00	1.48	.65	.02	.15	1.48
62	.28	.35	.34	.49	1.50	1.15	1.72	1.69	.81	.59	.26	.09	1.72
63	.34	.14	.14	1.69	1.16	.54	.16	2.10	.26	.18	.12	.18	2.10
64	.27	.10	.41	1.46	.39	2.69	.35	1.51	.49	.08	.52	.28	2.69
66	.31	.18	.67	.74	.55	.72	1.55	1.19	.24	.71	.07	.18	1.55
67	.35	.04	.15	.96	.57	.90	.25	.16	.10	.53	.01	.57	.96
68	.10	.12	.64	.91	.45	.82	.70	.58	.49	.72	.14	.20	.91
69	.28	.13	.33	1.05	.98	.99	2.85	.31	.84	.43	.09	.21	2.85
70	.02	.05	.85	1.02	.81	.94	.24	.85	2.86	.25	.38	.24	2.86
71	.39	.28	.25	.61	1.15	.78	.76	.23	2.15	1.37	.56	.13	2.15
72	.57	.18	.35	.57	1.38	.25	1.05	.96	.87	.37	.11	.63	1.38
73	.06	.06	.82	.30	.60	.42	1.03	1.65	2.07	.86	.35	.42	2.07
74	.10	.09	.22	1.00	1.05	.37	2.95	2.78	.10	1.60	.46	.09	2.95
75	.22	.07	.64	.59	.51	2.78	.99	1.20	.85	.78	.31	.09	2.78
76	.33	.26	.42	.34	.34	.46	.30	.13	.45	.14	.17	.06	.46
77	.21	.73	.70	.31	4.02	.59	3.06	.95	1.00	1.52	1.50	.49	4.02
78	.34	.39	.24	.35	.44	2.41	1.45	1.94	.25	.08	.66	.23	2.41
MEAN													
S D													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 7-64 0-88-5 (OL A)

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS:

1-14 STATION HECLER APT FARGO ND STATION NAME

48-64, 66-81

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM
JUL 64

0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

EXTREME VALUES
 MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

STATION 14 DIRECTOR APT FARGO ND STATION NAME 48-64, 66-81 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
40	.77	1.60	.87	2.44	1.05	4.57	4.10	.88	.85	.53	.76	.37	18.79
41	1.24*	.53	.36	.72	3.54	2.72	4.95	1.19	.36	2.76	.79	1.31	*19.77
50	1.36	.26	2.21	1.79	5.00	2.29	.42	.42	1.54	.99	.50	.60	17.38
51	.45	.72	.85	.46	1.63	2.36	3.77	5.64	.79	1.69	.70	2.19	21.25
52	1.07	.30	.68	.24	.47	2.03	8.42	2.69	.15	.08	1.67	.47	18.27
53	.37	.57	.46	2.94	3.44	5.23	1.08	2.94	.75	.32	.77	.70	19.57
54	.47	.03	.65	1.13	.81	1.46	2.34	2.60	2.68	.59	.17	.25	13.18
55	.18	.97	.63	.48	1.81	2.62	6.86	1.11	1.27	.34	.70	.47	17.44
56	.72	.18	.91	1.45	1.63	2.85	3.58	1.75	.83	1.14	1.60	.31	16.95
57	.31	.23	.08	1.90	2.00	5.47	4.72	1.68	6.13	1.64	.82	.25	25.03
58	.16	.15	.03	1.39	1.41	5.08	5.74	3.93	.71	.72	1.58	.04	20.94
59	.13	.20	.08	.66	1.88	4.73	4.26	3.02	.77	1.61	.31	.53	18.23
60	.17	.06	.11	3.62	1.71	1.82	2.40	3.91	1.26	1.34	1.63	1.01	19.04
61	.09	.18	.38	2.27	2.71	1.36	3.00	1.02	4.44	1.70	.06	.57	17.78
62	1.77	.97	1.78	1.51	5.95	2.78	5.92	3.25	3.15	.86	.54	.30	27.38
63	.13	.33	.51	2.67	2.61	1.69	.66	4.41	1.19	.23	.12	.39	14.94
64	.54	.27	.92	3.76	.87	4.85	.77	2.85	1.70	.10	.72	.91	18.26
66	.40	.26	1.92	1.78	1.27	2.91	4.01	3.80	.54	1.40	.18	.50	18.97
67	1.53	.21	.34	4.14	1.00	2.54	.60	.41	.31	1.06	.04	1.36	13.04
68	.37	.27	1.29	4.09	2.08	3.94	1.49	1.61	2.23	1.75	.37	1.11	20.60
69	1.27	.46	.54	1.55	2.36	2.03	5.92	.38	1.55	1.51	.14	.91	18.52
70	.10	.20	1.52	2.30	2.83	2.63	.43	1.24	3.61	1.61	.96	.47	17.90
71	.81	.34	.56	1.10	2.68	3.51	2.80	.92	4.30	4.42	.83	.59	22.86
72	.94	.61	.74	.96	3.52	.58	2.78	3.45	1.22	1.25	.22	1.51	17.78
73	.12	.13	1.25	.70	1.65	1.78	3.60	3.85	4.98	1.54	.90	1.02	21.52
74	.35	.36	.71	3.40	4.03	.90	4.75	6.46	.13	3.10	.48	.32	24.99
75	1.32	.27	1.48	3.24	1.45	9.40	2.42	2.90	1.24	1.76	.64	.18	26.30
76	1.25	.35	1.10	1.19	.46	2.34	.63	.41	.55	.16	.26	.24	8.84
77	.65	1.24	1.72	.84	7.30	1.64	5.36	2.53	3.21	2.46	4.58	.75	32.28
78	.16	.18	.43	1.15	1.78	4.40	2.92	3.79	.92	.13	1.11	.47	17.44
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-80-5 (OL A)
 JUL 64

EXTREME VALUES

(FROM DAILY OBSERVATIONS)

1. 14 HECTOR. APT. FARGO ND
STATION STATION NAME

48-64, 66-81

YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM
JUL 64

0-88-5 (OL A)

2
1
2
GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

14514 STATION HECTOR APT FARGO ND STATION NAME

52-64, 66-81 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	30.9	39.9	15.7	8.6	2.9	1.0	.6	.3	.1	.1				29.4	868	7.7	18.3	1.3
FEB	40.2	34.4	15.8	5.7	2.0	1.0	.4	.5						25.4	791	5.5	19.5	.3
MAR	53.9	26.4	10.4	5.3	2.0	.9	.7	.5						19.7	868	5.9	18.7	TRACE
APR	77.9	13.7	3.0	3.1	1.3	.4	.2	.4	.1					8.5	840	3.3	12.8	TRACE
MAY	96.5	2.8	.5	.2										.7	868	.1	.9	.0
JUN	100.0														810	.0	.0	.0
JUL	100.0														868	.0	.0	.0
AUG	100.0														868	.0	.0	.0
SEP	99.6	.4													840	TRACE	TRACE	.0
OCT	90.1	7.6	.8	1.0	.3	.1								2.3	868	.6	3.8	.0
NOV	59.6	27.1	7.1	3.6	1.2	.6	.2	.2		.2				13.2	840	4.1	24.2	.4
DEC	38.7	35.5	13.2	8.6	2.1	1.2	.3	.2	.1					25.6	868	6.4	16.5	.9
ANNUAL	73.9	15.6	5.5	3.0	1.0	.4	.2	.2	.0	.0				10.4	10197	33.6		

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

1014 HECTOR APT FARGO ND
 STATION STATION NAME

48-64, 66-81

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
45	3.4	5.7	2.6	.7	TRACE	.0	.0	.0	.0	TRACE	5.0	1.1	5.7
48	6.8*	1.8	1.3	TRACE	TRACE	.0	.0	.0	.0	TRACE	3.0	5.7	6.8
50	3.4	1.0	2.4	2.6	1.0	.0	.0	.0	.0	1.0	2.5	2.2	3.4
51	1.7	10.8	3.4	1.3	.0	.0	.0	.0	.0	7.0	2.4	5.2	10.8
52	6.1	1.0	3.7	1.8	.0	.0	.0	.0	.0	TRACE	.5	1.5	6.1
53	.7	3.1	1.9	.7	TRACE	.0	.0	.0	.0	TRACE	4.5	3.1	4.5
54	1.9	.1	2.0	.4	.9	.0	.0	.0	.0	TRACE	.4	1.6	2.0
55	.5	4.2	1.7	.3	.0	.0	.0	.0	.0	TRACE	2.3	2.5	4.2
56	2.7	1.3	6.0	3.4	.0	.0	.0	.0	TRACE	.0	.3	1.0	6.0
57	1.0	2.7	.4	1.2	.0	.0	.0	.0	TRACE	TRACE	1.0	.6	2.7
58	.7	1.4	.7	TRACE	.0	.0	.0	.0	.0	TRACE	3.0	.5	3.0
59	1.7	1.1	.1	1.0	TRACE	.0	.0	.0	.0	.5	2.1	.8	2.1
60	2.4	.5	.6	5.2	.2	.0	.0	.0	.0	TRACE	10.9	1.6	10.9
61	.6	1.0	TRACE	1.0	TRACE	.0	.0	.0	.0	TRACE	.2	1.9	1.9
62	5.0	3.1	3.4	1.3	.0	.0	.0	.0	.0	.2	2.8	.9	3.4
63	.6	1.8	1.4	6.0	.1	.0	.0	.0	.0	.0	.4	1.8	6.0
64	4.6	2.6	3.7	3.5	.0	.0	.0	.0	.0	TRACE	2.0	3.7	4.6
66	4.0	.7	6.4	2.3	.0	.0	.0	.0	.0	1.0	.8	1.4	6.4
67	4.1	.5	2.9	2.7	TRACE	.0	.0	.0	.0	.7	.5	5.4	5.4
68	1.0	1.2	1.4	5.4	.4	.0	.0	.0	.0	.3	1.4	2.8	5.4
69	2.8	4.5	1.5	TRACE	TRACE	.0	.0	.0	.0	1.5	1.5	2.5	4.5
70	.6	.9	2.6	8.6	TRACE	.0	.0	.0	.0	.9	4.1	3.0	8.6
71	4.7	3.2	.5	.5	TRACE	.0	.0	.0	.0	2.0	.8	1.9	4.7
72	7.0	2.0	3.4	1.1	.0	.0	.0	.0	TRACE	2.7	.9	7.2	7.2
73	.6	.6	1.0	2.4	.0	.0	.0	.0	.0	TRACE	1.3	4.4	4.4
74	1.5	2.1	2.6	2.3	.0	.0	.0	.0	.0	.4	.5	1.1	2.6
75	2.7	2.0	6.4	2.2	TRACE	.0	.0	.0	.0	.4	3.1	.8	6.4
76	4.1	5.0	4.0	TRACE	.1	.0	.0	.0	.0	.1	1.7	2.0	5.0
77	2.6	4.9	2.8	1.1	.0	.0	.0	.0	.0	TRACE	12.0	2.0	12.0
78	1.0	1.7	4.0	2.2	.0	.0	.0	.0	.0	TRACE	3.7	5.3	5.3
MEAN													
S D													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OL A)
 JUL 64

GLOBAL CLIMATOLOGY BRANCH

DEFECTAC

ALL LEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

1014 HECTOR APT FARGO ND
STATION STATION NAME

48-64, 66-81

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

FEDERAL CLIMATOLOGY BRANCH
 AFCELTAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

114 HECIOP APT FARGO ND 48-64, 66-81
 STATION STATION NAME YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48	7.3	15.8	7.2	1.2	TRACE	.0	.0	.0	.0	TRACE	9.8	3.8	45.1
49	12.3*	5.6	2.3	TRACE	TRACE	.0	.0	.0	.0	TRACE	5.3	10.8	* 36.3
50	14.9	2.5	10.2	12.4	1.0	.0	.0	.0	.0	1.0	4.9	7.2	54.1
51	5.7	12.1	11.5	2.0	.0	.0	.0	.0	.0	8.1	7.9	20.3	67.6
52	11.2	3.2	9.9	1.8	.0	.0	.0	.0	.0	TRACE	.8	6.3	33.2
53	3.3	6.4	4.6	.9	TRACE	.0	.0	.0	.0	TRACE	6.5	8.6	30.3
54	7.0	.3	4.0	.5	.9	.0	.0	.0	.0	TRACE	1.1	3.3	18.0
55	2.8	12.0	7.4	.3	.0	.0	.0	.0	.0	TRACE	6.0	4.9	33.4
56	7.9	1.8	9.2	4.7	.0	.0	.0	.0	TRACE	.0	.5	3.2	27.3
57	3.3	4.4	.7	2.8	.0	.0	.0	.0	TRACE	TRACE	1.6	1.2	14.0
58	2.8	1.9	1.8	TRACE	.0	.0	.0	.0	.0	TRACE	6.5	.9	13.9
59	2.0	3.5	.2	1.1	TRACE	.0	.0	.0	.0	.7	3.6	1.5	12.6
60	6.2	1.2	2.4	7.9	.2	.0	.0	.0	.0	TRACE	11.0	3.6	32.5
61	1.6	2.3	TRACE	2.8	TRACE	.0	.0	.0	.0	TRACE	.5	6.5	13.7
62	10.9	10.1	10.7	2.0	.0	.0	.0	.0	.0	.2	3.1	2.5	39.9
63	1.3	3.9	5.3	6.0	.1	.0	.0	.0	.0	.0	.4	4.3	21.3
64	8.4	6.2	8.4	9.2	.0	.0	.0	.0	.0	TRACE	2.7	11.9	46.8
66	5.0	1.1	15.4	5.0	.0	.0	.0	.0	.0	1.2	1.3	3.4	32.4
67	15.1	2.6	4.9	5.0	TRACE	.0	.0	.0	.0	.7	.7	10.3	39.3
68	4.0	2.4	2.0	11.6	.4	.0	.0	.0	.0	.8	3.9	11.4	36.5
69	14.5	7.8	3.0	TRACE	TRACE	.0	.0	.0	.0	2.0	1.9	9.5	38.7
70	2.3	3.6	9.1	12.8	TRACE	.0	.0	.0	.0	.9	6.4	8.3	43.4
71	15.1	4.8	1.8	1.0	TRACE	.0	.0	.0	.0	3.8	2.3	10.0	38.8
72	16.5	10.9	7.1	3.1	.0	.0	.0	.0	TRACE	3.8	1.7	18.5	61.6
73	1.7	1.4	1.4	2.4	.0	.0	.0	.0	.0	TRACE	3.9	12.3	23.1
74	6.1	7.1	10.5	2.7	.0	.0	.0	.0	.0	.4	1.0	5.1	32.9
75	18.3	5.9	18.7	3.7	TRACE	.0	.0	.0	.0	.4	3.8	1.9	52.7
76	14.0	6.2	14.0	TRACE	.1	.0	.0	.0	.0	.1	2.7	5.5	42.6
77	12.0	10.7	4.6	2.1	.0	.0	.0	.0	.0	TRACE	24.2	7.2	61.4
78	4.6	3.9	7.1	2.6	.0	.0	.0	.0	.0	TRACE	8.5	11.7	38.6
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-3 (OL A)

EXTREME X VALUES
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

1414 HECTOR APT FARGO ND
STATION STATION NAME

48-64, 66-81
YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM
JUL 64

0-88-5 (OL A)

2 GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

1951-4 STATION HECTOR APT FARGO ND 48-64, 66-81 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	1.0	6.9	8.8	11.0	7.7	27.4	33.3	4.0						92.1	992			
FEB	1.0	5.4	10.3	12.0	12.5	25.8	25.7	6.3						92.7	902			
MAR	22.0	19.5	10.5	6.9	8.3	11.6	15.8	5.5						58.6	992			
APR	75.9	13.3	4.0	2.3	1.7	2.4	.4							10.7	960			
MAY	98.3	1.5	.2											.2	992			
JUN	100.0														930			
JUL	100.0														961			
AUG	100.0														961			
SEP	100.0														930			
OCT	96.9	2.0	.5	.4		.2								1.1	961			
NOV	54.4	22.4	7.0	5.2	4.4	5.1	.5	1.1						23.2	930			
DEC	10.9	16.0	15.8	10.5	13.3	23.0	9.2	1.1						73.0	960			
ANNUAL	63.4	7.2	4.8	4.0	4.0	8.0	7.1	1.5						29.3	11471			

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 52-64, 66-81

STATION

STATION NAME

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52							0	0	0	0	TRACE	3	
53	4	4	2	TRACE	0	0	0	0	0	0	6	7	7
54	12	10	2	1	1	0	0	0	0	0	1	3	12
55	3	8	7	TRACE	0	0	0	0	0	0	3	5	8
56	7	7	8	5	0	0	0	0	0	0	TRACE	1	8
57	2	3	TRACE	2	0	0	0	0	0	0	1	1	3
58	2	4	1	0	0	0	0	0	0	0	5	4	5
59	3	4	TRACE	0	0	0	0	0	0	TRACE	1	1	4
60	6	4	3	6	0	0	0	0	0	0	11	10	11
61	5	3	TRACE	1	0	0	0	0	0	0	TRACE	5	5
62	8	10	14	3	0	0	0	0	0	TRACE	3	1	14
63	1	2	2	6	0	0	0	0	0	0	TRACE	4	6
64	6	3	6	3	0	0	0	0	0	0	3	11	11
66	7	4	15	2	0	0	0	0	0	TRACE	1	3	15
67	11	8	3	2	TRACE	0	0	0	0	1	1	8	11
68	9	3	2	4	TRACE	0	0	0	0	TRACE	1	7	9
69	17	16	16	7	0	0	0	0	0	2	2	7	17
70	7	6	7	5	TRACE	0	0	0	0	1	4	3	7
71	10	14	3	1	0	0	0	0	0	1	1*	5	14
72	10	9	9	1	0	0	0	0	0	2	1	13	13
73	13	2	1	TRACE	0	0	0	0	0	0	2	6	13
74	6	9	4	4	0	0	0	0	0	1	1	3	9
75	8	7	10	8	0	0	0	0	0	TRACE	3	2	10
76	9	8	10	TRACE	TRACE	0	0	0	0	TRACE	1	2	10
77	3	9	4	1	0	0	0	0	0	0	17	15	17
78	10	11	14	2	0	0	0	0	0	0	4	12	14
79	12	24	19	4	1	0	0	0	0	0	3	1	24
80	11	6	5	TRACE	0	0	0	0	0	TRACE	TRACE	1	11
81	2	2	1	TRACE	0								
MEAN	7.5	7.1	6.0	2.4	.1	.0	.0	.0	.0	.3	2.7	5.1	10.5
S.D.	3.892	4.919	5.470	2.410	.262	.000	.000	.000	.000	.585	3.650	4.073	4.684
TOTAL OBS	868	791	868	840	868	810	868	868	840	868	840	867	10196

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- *1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- *2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

*Values for means and standard deviations do not include measurements from incomplete months.

EXTREME VALUES

SURFACE WINDS

(FROM DAILY OBSERVATIONS.)

1-15-66 DIRECTOR APT FARGO ND
STATION STATION NAME

70-81

YEARS

DAILY PEAK GUSTS IN KNOTS

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM
JUL 64

0-88-5 (OL A)

A) \$ (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

U.S. AIR FORCE
 AIR FORCE CLIMATOLOGY BRANCH
 AFMPC
 METEOROLOGICAL SERVICE/MAL

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14 STATION NAME FACTOR APT FARGY ND YEARS 74-81 MONTH JAN
 CLASS ALL WEATHER MONTHS 0000-0000
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.2	5.9	2.3	1.3	.5	.1				14.5	14.1
NNE	.1	1.2	.7	.5								2.8	7.5
NE	.5	.3	.9									1.5	6.5
ENE	.3	.7	.1									1.2	4.4
E		1.5	1.1	.1								2.7	6.6
ESE		.7	.1	.3								1.1	7.5
SE	.4	.7	.4	.9	.3							2.7	5.7
SSE	.1	.	1.6	4.4	.9	.4						7.7	12.5
S	.7	2.4	6.6	4.7	.3							14.2	8.9
SSW	.4	1.5	3.8	.4								3.4	7.4
SW	.7	1.1	1.3	.3								3.5	6.5
WSW	.4	1.5	2.2	.5								4.6	7.6
W	.9	2.3	2.4	2.2	.4							5.7	6.3
WNW		1.7	1.5	1.5	.4	.5	.1					5.8	11.4
NW	.4	1.3	2.0	1.5	.8	.1	.4	.1				6.7	11.7
NNW	.1	1.7	1.2	2.6	1.2	1.7	.1	.3				6.7	14.8
VARBL													
CALM												5.2	
	1.4	21.5	7.3	25.3	6.5	4.2	1.2	.5				100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
AFSTAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION NO. 1-14 STATION NAME ALL WEATHER CLASS 74-81 YEARS MONTH JAN 1950-1951 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.5	2.6	5.8	1.5	1.6	.9					14.4	14.1
NNE	.3	1.1	.4									1.7	5.3
NE	.3	.9	.5	.1								1.7	5.6
ENE	.7	.1										.4	3.7
E	.7	.7	.4	.3								1.6	6.6
ESE	.5	.9	.5	.1								2.4	5.7
SE	.1	.9	.7	1.2	.1							3.1	9.7
SSE	.1	.9	2.6	3.8	1.5							8.9	12.0
S	.3	3.4	5.5	5.0	.3	.1						14.5	9.3
SSW	.7	1.5	2.7	.4								4.2	6.6
SW	.4	1.3	2.0	.7								4.4	7.1
WSW	.4	.9	2.3	.4								4.3	7.3
W		2.2	3.2	2.3		.3						7.7	9.6
WNW	.7	1.7	1.9	1.6	.4	.9	.1					6.0	11.2
NW		1.3	2.0	.9	.8	1.1	.1	.4				6.7	14.3
NNW		.6	2.4	2.6	1.5	.9	.3					6.6	13.6
VARBL													
CALM												8.3	
	4.2	20.6	29.0	25.1	6.0	4.8	1.5	.4				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 1- FACTOR APT FARGO ND 74-81
 STATION STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 JAN
 1600-1800
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	4.7	3.2	2.0	2.7	.3					14.5	14.0
NNE	.1	.5	1.2									3.2	6.4
NE		.5	.4	.1								1.5	7.5
ENE		.5	.4	.1								1.1	7.5
E		.1	.4	.3								.8	10.0
ESE		.7	.3	.1								.7	7.5
SE		.5	2.5	.8								3.6	6.5
SSE	.1	.7	2.6	3.4	.8	.4	.1					8.3	11.9
S	.7	2.4	3.1	4.3	1.1	.3						16.5	9.5
SSW	.4	1.1	1.7	.1								3.4	7.5
SW	.7	1.1	1.9	.7								5.9	7.7
WSW		2.2	1.9	.4								4.4	7.2
W	.7	1.7	3.4	1.2	.4	.1						7.5	8.7
WNW	.1	2.7	3.8	1.2	1.2	.1	.3					5.9	10.6
NW	.4	1.1	1.3	1.2	.9	.1	.1	.3				5.5	12.6
NNW	.5	1.7	3.5	1.5	1.7	.8						9.6	11.6
VARBL													
CALM												7.3	
	3.4	12.2	37.6	19.7	8.2	4.6	.8	.3				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 743

U.S. AIR FORCE
 CLIMATE BRANCH
 AFMPC
 WASHINGTON, D.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. STATION: MINOTAP APT FARGO ND STATION NAME: 74-81 YEARS: JAN
 MONTH: 0000-1100
 CLASS: ALL WEATHER
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.6	4.4	4.0	2.9	2.6						18.1	13.4
NNE		.1	.7	.7	.1							1.8	13.6
NE	.1	.3	.7	.3								1.3	6.4
ENE	.7	.5	.4									1.2	6.4
E	.5	.4	.5	.1								1.6	6.3
ESE		.5	.7	.3								1.5	7.5
SE	.7	.3	1.2	1.7	.5							4.0	11.1
SSE		.4	1.3	2.8	1.6	.1						6.3	13.4
S		1.7	5.8	6.2	1.1	.5	.1					18.2	11.4
SSW	.1	1.2	1.0	1.2								4.4	6.8
SW	.1	1.2	1.0	1.1	.1							4.4	8.5
WSW	.5	1.2	2.7	.7								5.1	7.3
W	.7	1.7	3.2	1.6	.5	.1	.1					8.1	9.2
WNW	.4	1.2	2.3	2.7	1.1	.3	.3	.1				9.3	12.2
NW		1.1	1.5	1.5	.9	.4		.4				5.8	13.7
NNW	.4	.5	1.3	2.6	1.5	.3	.1					7.3	13.9
VARBL													
CALM												7.7	
	3.8	14.2	30.5	27.4	10.3	4.8	.7	.5				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
ETAC
FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 STATION HECTOR APT FARGO ND 74-81 YEARS JAN NORTH
1200-1400
HOURS (L.S.T.)
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.6	2.9	4.4	4.0	3.0	.5					16.5	15.6
NNE	.1	.7	.5	.8	.3							2.4	10.1
NE		.7	.5									.8	7.0
ENE		.7	.1									.6	6.0
E	.1	.7	.5									1.3	6.1
ESE		.4	1.7	.8								3.0	9.1
SE	.1	.1	1.2	.7	.7							2.8	11.6
SSE		.5	.8	2.4	1.5	.5	.1					5.4	14.6
S	.1	.7	4.6	6.5	1.7	.1						13.8	11.9
SSW	.1	.7	1.5	1.5	.1							3.3	10.2
SW	.7	1.5	2.3	.7								4.7	7.9
WSW	.1	.5	2.6	1.2	.3	.1						4.6	9.9
W	.3	1.5	2.4	3.6	.4							6.7	10.1
WNW	.3	1.3	2.6	4.0	.9	.7	.1	.7				10.6	13.6
NW	.1	1.1	2.0	1.6	1.3	.5		.1				6.2	12.6
NNW	.3	.5	1.6	3.4	2.2	1.3		.1				9.4	14.9
VARBL													
CALM												4.2	
	2.2	12.6	27.8	31.6	13.4	6.3	.8	.9				170.0	11.9

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATE LOG FRANCH
 LTAC
 LATERAL SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 74-81 74-81 JAN 1900-1900
 STATION NAME CLASS
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	1.1	3.6	6.5	4.3	1.2	.4					17.8	14.2
NNE		.1	.5	.4								1.2	5.7
NE	.1	.1	.1	.1								.5	7.0
ENE		1.1	.1	.1								1.3	5.2
E	.1	.4	.4	.1								1.1	7.0
ESE	.1	.7	1.3	.1								2.2	7.0
SE		.1	.1	1.1	.1							2.7	10.3
SSE		.1	1.9	3.4	1.3	.4	.3					6.1	13.0
S		2.2	5.1	8.1	1.6	.1						15.1	11.0
SSW	.1	.4	1.5	.5								2.5	7.3
SW	.1	.7	1.9	1.1								3.8	9.0
WSW		1.2	1.2	.9								3.4	6.2
W	.7	2.6	1.6	2.8	.3							7.0	6.7
WNW	.1	1.0	2.9	2.6	.4	.1	.5					3.5	11.2
NW		.7	2.3	3.4	.9	.7		.1				9.1	13.1
NNW	.1	.1	2.6	3.4	2.6	1.1	.4	.4				11.4	14.6
VARBL													
CALM												4.2	
	2.2	15.7	28.0	32.6	11.6	3.6	1.6	.5				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 743

AFAC CLIMATOLOGY BRANCH
TAC
STATION SERVICE/TAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-1- HECTOR APT FARGO ND 74-81 JAN NORTH
STATION STATION NAME YEARS
ALL WEATHER CLASS 1970-2000
CONDITON HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.2	3.8	6.0	3.2	.7	.5					18.7	13.2
NNE	.1	.3	.9	.3	.1							1.7	9.4
NE	.1	.7	.7									1.5	6.0
ENE	.4	.4	.7									1.5	5.5
E	.4	.3	.8									2.0	5.5
ESE	.3	.2	.5									1.7	5.3
SE		.4	1.7	.7	.3							3.1	10.3
SSE		.4	3.0	3.9	1.3	.1	.3					9.0	12.9
S	.4	2.2	6.7	4.4	1.2	.1						15.1	10.2
SSW	.7	1.1	1.5	.8	.1							3.0	6.4
SW	.3	1.5	.5	.7	.1							3.1	6.3
WSW	.7	1.1	2.4	.4	.1							4.3	7.9
W		1.7	3.2	1.1								6.0	6.2
WNW	.4	1.5	3.9	1.5	.5	.1	.3					6.2	9.9
NW	.5	.8	2.2	1.6	.8		.1					6.0	11.0
NNW	.1	1.1	2.4	3.1	1.2	.6	.5	.3				9.3	14.0
VARBL													
CALM												6.7	
	3.0	16.9	34.9	24.5	9.1	1.9	1.7	.3				103.0	10.0

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
 TETAC
 WEATHER SERVICE/AC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 SECTOR APT FARGO ND 74-81 JAN 1950-2000
 STATION MONTH
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	3.1	4.7	3.2	1.2	.7					14.9	14.1
NNE	.3	.3	1.3	.7	.1							2.7	9.3
NE		1.2	.4									1.6	5.4
ENE		1.0	.5									2.0	5.5
E	.1	.2	.1									1.2	5.4
ESE	.1	1.1	.5									1.7	5.6
SE	.1	.2	.7	1.1	.3							3.0	9.0
SSE	.1	.3	2.3	3.1	1.3	.3	.1					6.1	12.6
S	.1	2.0	5.4	5.0	.7	.3						13.4	10.2
SSW	.3	1.5	2.3	.8	.1							5.3	7.8
SW		1.3	1.5	.9								3.6	8.3
WSW		.0	1.3	1.6								3.9	9.5
W	.1	1.9	4.4	.9	.1							7.5	8.4
WNW	.3	2.6	1.6	1.3	.7	.4						6.9	10.1
NW	.1	1.5	1.1	1.3	.7	.3	.4	.1				5.5	13.0
NNW		2.2	2.2	2.3	2.3	.8	.3	.3				10.2	13.7
VARBL													
CALM												8.6	
	1.9	22.3	26.8	23.8	9.5	3.2	1.5	.4				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 STATION NAME CTOR APT FARGO ND YEAR 74-91 MONTH JAN
 CLASS ALL WEATHER
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.2	1.3	3.4	5.1	2.9	1.8	.5	.0				15.7	14.1
NNE	.1	.6	.8	.4	.1							2.0	5.5
NE	.1	.6	.5	.1								1.3	6.5
ENE	.2	.7	.3	.0								1.2	5.8
E	.2	.7	.5	.1								1.5	5.4
ESE	.2	.7	.7	.2								1.8	7.0
SE	.1	.6	1.1	1.0	.3							3.1	10.1
SSE	.1	.7	2.0	3.4	1.3	.3	.1					7.8	12.9
S	.3	2.1	5.0	5.2	1.0	.7	.0					14.3	10.3
SSW	.3	1.1	1.9	.7	.1							4.1	8.7
SW	.3	1.2	1.7	.8	.0							3.9	7.9
WSW	.2	1.2	2.1	.8	.1	.3						4.3	3.1
W	.4	2.0	3.0	2.0	.3	.1	.0					7.7	8.9
WNW	.3	1.7	2.5	2.1	.7	.4	.2	.1				5.5	11.4
NW	.2	1.1	1.8	1.6	.9	.4	.2	.2				6.4	12.8
NNW	.2	1.2	2.2	2.7	1.8	1.0	.2	.2				9.3	13.9
VARBL													
CALM												6.9	
	3.3	17.0	30.5	26.1	9.3	4.2	1.2	.5				100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 5957

1. AL CLIMATOLOGY BRANCH
 AFAC
 SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 WHEATON APT FARGO ND 74-81 FILE
 STATION STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 MONTHS
 1974-1977
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.1	5.9	4.4	2.4	2.2						17.7	12.6
NNE	.4	1.2	1.9	1.0	.1							3.6	8.4
NE	.6	1.2	1.2	.3								3.3	6.4
ENE	.5	.7	.3	.1								1.6	5.7
E	.3	1.6	.3	.1								2.4	5.4
ESE	.4	1.3	.4	.3								2.5	5.6
SE	.1	1.8	1.0	.6								3.5	7.5
SSE		1.7	1.5	3.4	2.2	1.5						9.4	13.5
S	.6	2.9	5.7	6.0	1.0							15.7	10.1
SSW		1.9	1.7	.6								3.5	6.2
SW	.1	1.7	.6	.4								2.8	6.9
WSW	.1	1.6	.9	.1								2.8	6.4
W	.4	1.8	1.2	1.7	.1							4.7	6.5
WNW	.6	1.2	2.9	1.5	.1							5.9	8.4
NW	.4	1.7	2.7	1.2	.1	.9						6.7	10.7
NNW	.3	1.3	2.1	2.4	1.6	.3						8.4	11.6
VARBL													
CALM												5.5	
	7.2	24.6	29.1	23.2	7.8	4.4						170.3	9.4

TOTAL NUMBER OF OBSERVATIONS 678

1. CLIMATOLOGY BRANCH
 2. CLIMATOLOGY BRANCH
 3. CLIMATOLOGY BRANCH

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 14 STATION SECTOR APT FARGO ND STATION NAME 74-81 YEARS 5300-7600 MONTHS 5300-7600
 CLASS ALL WEATHER
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.7	5.5	4.6	2.4	1.9	.1					17.7	12.4
NNE	.7	.3	1.6	.1	.1							2.7	7.9
NE		.3	.6	.1								1.0	7.7
ENE	.1	1.6	.4	.4								2.7	6.3
E	.7	1.2	.6	.6								2.7	7.0
ESE	.3	.7	.6	.6								2.2	7.5
SE	.3	1.6	.7	.9								3.5	7.5
SSE	.1	1.9	3.1	2.9	2.2	.4						10.6	12.2
S	.7	4.1	5.3	3.8	1.2							15.2	9.1
SSW	.1	1.3	1.8	.4	.1							4.2	7.7
SW	.7	1.3	1.2	.1								2.9	6.3
WSW	.1	1.2	.4	1.2								2.9	8.7
W	.3	1.7	1.3	.6								3.2	7.6
WNW	1.0	1.2	1.6	.4	.4	.3						5.2	6.5
NW	.1	1.3	1.9	1.5	.1	1.0						6.0	11.2
NNW	.1	2.5	3.2	3.1	.6	.7	.3					10.9	11.2
VARBL													
CALM												6.3	
	4.7	25.2	30.1	21.5	7.2	4.4	.4					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 670

U.S. AIR FORCE
 CLIMATE SERVICE/AFAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14 FLCTOR APT FARGO ND 74-81 74-81
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.4	3.8	5.0	3.2	.0	.4					17.4	12.3
NNE	.1	1.5	1.9	.4	.1							4.0	7.7
NE		.7	.4	.4								1.5	7.8
ENE		1.7	.0	.1								2.1	7.5
E	.7	1.7	.7	.1								2.7	6.7
ESE	.3	.7	1.6	.1								2.7	6.8
SE	.1	1.3	.7	1.6	.1							4.0	9.1
SSE		1.3	2.1	2.4	2.1	1.0						8.3	13.6
S	.1	3.5	6.5	2.7	.9							13.7	8.8
SSW	.4	2.2	1.9	.6								5.0	6.8
SW	.1	1.8	.6	.4								2.9	7.0
WSW	.7	1.5	1.5	.6								3.8	7.2
W	.4	1.7	2.1	.9	.4							4.9	9.0
WNW	.6	1.3	1.3	.4	.1	.4						4.3	9.2
NW	.7	2.1	3.1	1.2	.7	.7						7.4	9.7
NNW		3.4	2.1	1.5	.7	1.0						8.7	10.7
VARBL													
CALM												5.6	
	4.7	28.0	30.7	16.6	7.8	4.1	.4					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 678

CLIMATE CLIMATOLOGY BRANCH
 AFMAG
 WEATHER SERVICE/AFMAG

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 74-81
 STATION STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 MONTH
 PERIOD-1100
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.2	4.9	5.0	3.8	1.6	.1					14.5	12.5
NNE		.5	1.3	.6	.1							2.9	5.9
NE	.3		.6	.4								1.3	4.6
ENE		.3	.7	.3								1.3	4.4
E		.2	.7	.7								2.4	6.5
ESE		.5	.6	.4								1.5	7.6
SE		.7	1.6	1.3	.3	.1						4.4	10.6
SSE		.4	1.3	2.8	1.6	1.2						7.5	14.6
S	.3	1.7	5.2	4.0	1.2	.6						14.2	10.7
SSW	.1	1.5	2.8	.3								4.7	7.3
SW	.7	1.7	1.2									2.5	6.5
WSW	.3	.6	1.5	.6								2.7	8.3
W	.3	1.2	.6	1.0	.6							3.7	9.8
WNW	.4	1.5	1.9	1.5	.4	.7						6.5	10.9
NW	.7	.9	3.1	3.4	.6	.6						7.3	11.1
NNW	.4	1.5	3.5	1.9	1.2	.9	.3					9.7	12.0
VARBL													
CALM												5.5	
	4.0	17.4	32.7	24.3	9.9	5.8	.4					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 673

U.S. AIR FORCE
 CLIMATE RESEARCH
 CENTER
 WETTER SERVICE/MAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 WETTER APT FARGO ND 74-81
 STATION STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 NORTH
 1200-1400
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.3	4.4	7.4	4.3	1.3	.6					30.4	13.6
NNE		.3	1.3	.9	.4							3.4	11.5
NE	.1		.4	.3								.9	9.5
ENE	.1	.4	.3	.4								1.3	8.6
E		.1	.4	.3								.9	8.7
ESE	.3	.1	1.3	.4								1.9	8.6
SE	.1	.4	1.3	2.4	.4	.1						4.3	12.0
SSE		.1	2.1	1.8	2.1	1.0						7.1	14.9
S	.1	.7	2.7	6.2	1.9	.4						12.0	12.7
SSW	.3	.4	2.1	1.0								3.8	8.9
SW	.3	.7	1.3	.9								3.2	8.6
WSW	.1	1.3	.7	.4								3.2	7.6
W	.7	1.6	2.2	1.0	.7	.1						6.5	9.5
WNW	.3	.6	1.2	1.5	.4	.6						4.6	12.4
NW	.3	1.2	2.2	3.1	1.3	.6	.4					5.4	12.5
NNW	.4	1.6	4.9	3.1	3.0	.9	.3					14.2	12.7
VARBL													
CALM												3.2	
	4.0	12.3	29.1	30.6	14.2	5.3	1.3					100.0	11.7

TOTAL NUMBER OF OBSERVATIONS 677

AL CLIMATOLOGY BRANCH

120

EXT IN SERVICE/PAU

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION MOTOR APT FARGO ND 74-81 YEARS FEB MONTH 1500-1700 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	3.5	7.4	4.4	1.9						17.9	14.2
NNE	.1	.4	1.6	1.8	.4							4.7	11.1
NE	.1	.6	.6	.4								1.7	7.6
ENE		.7	.9	.3								1.5	6.7
E		.1	.7									.9	7.2
ESE		.1	1.2	.1								1.5	6.1
SE		.6	1.9	1.6	.9	.1						5.3	11.5
SSE	.1	.3	1.5	3.7	1.3	.4						7.4	13.6
S	.1	2.7	3.4	5.3	1.5	.1						13.4	16.9
SSW	.3	.7	1.3	1.3	.1	.1						4.8	10.1
SW	.1	2.4	1.8	.9								5.2	7.4
WSW	.1	.7	.7									1.5	6.5
W	.1	1.5	1.7	1.6	.3	.1						4.7	13.1
WNW		1.2	1.6	1.5	.3	.1						4.8	10.5
NW	.3	1.3	1.8	2.2	1.3	1.5	.1					8.6	13.4
NNW	.3	1.7	3.4	4.6	2.4	1.3						13.0	13.6
VARBL													
CALM												2.9	
	7.2	15.7	27.3	32.7	13.0	5.9	.1					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 674

NATIONAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION APT FARGO ND 74-81
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
FEB
1800-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	5.5	7.7	3.5	.9						19.3	12.5
NNE		.6	2.1	1.3		.1						4.1	9.0
NE	.4	1.5	.8	.3								3.1	6.4
ENE	.7	1.6	.3	.4								2.7	6.4
E	.5	.6	1.0									2.2	5.6
ESE	.1	.7	1.2	.1								2.2	7.1
SE		1.7	1.9	1.5	.4	.3						5.2	10.9
SSE	.1	.6	1.9	3.8	1.2	.4						8.1	13.0
S	.1	1.5	6.9	4.0	.9							13.7	10.3
SSW		.7	.6	.3		.1						1.8	9.6
SW		1.2	1.3	.1								2.7	7.4
WSW	.1	1.7	1.3	.3								3.5	6.6
W	.6	1.3	1.6	.7								4.3	7.4
WNW		1.2	.6	2.2	.4							4.4	10.6
NW	.3	1.6	2.1	2.4	1.3	.1						7.8	11.0
NNW	.1	1.6	.9	2.7	1.6	.7	.1					7.8	13.4
VARBL													
CALM												7.1	
	3.4	12.6	29.6	27.9	9.4	2.8	.1					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 676

NAVAL CLIMATOLOGY BRANCH
NAFAC
WEATHER SERVICE/NAFAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 GEOTOP APT FARGO ND 74-21 FEB
STATION STATION NAME YEARS NORTH
ALL WEATHER
CLASS
CONDITION
2100-2500
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.9	5.0	5.3	3.5	.6						17.1	12.2
NNE	.2	.4	1.3	1.6	.3							4.0	10.7
NE	.3	1.5	1.3									3.1	6.9
ENE	.1	1.0	.1									1.3	5.1
E	.3	1.5	.1									2.1	5.0
ESE	.4	.3	1.0	.3								2.7	6.4
SE	.1	.4	1.3	1.3	.3							3.5	10.5
SSE	.1	.4	1.5	3.4	1.3	.7						8.0	14.7
S	.3	2.7	6.6	6.2	1.0	.1						17.0	15.4
SSW	.1	1.3	1.8	.4								3.7	7.4
SW		1.2	.6									1.9	6.3
WSW	.4	1.9	1.3		.1							3.8	6.3
W	.3	2.2	1.3	1.0	.1							5.0	8.1
WNW	.1	1.0	1.2	1.9	.3							4.5	10.4
NW		1.0	2.2	2.5	.3	.3						6.3	10.3
NNW	.1	1.8	1.6	2.4	1.8	.6						5.3	12.3
VARBL													
CALM												7.4	
	3.4	22.4	25.5	25.4	9.6	2.4						100.3	9.6

TOTAL NUMBER OF OBSERVATIONS 572

CLIMATE BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 74-81 FEB
 STATION STATION NAME YEARS MONTH
 ALL WEATHER CLASS ALL
 CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.4	4.3	5.8	3.4	1.4	.2					13.4	12.0
NNE	.2	.7	1.6	1.0	.2	.0						3.7	9.6
NE	.2	.7	.8	.3								2.3	7.2
ENE	.1	.9	.5	.3								1.8	6.9
E	.2	.0	.6	.2								2.3	5.5
ESE	.2	.7	1.7	.3								2.9	7.1
SE	.1	1.1	1.3	1.4	.3	.1						4.3	10.2
SSE	.1	.8	1.9	3.0	1.8	.8						3.4	13.6
S	.4	2.6	5.4	4.8	1.2	.2						14.5	10.3
SSW	.2	1.3	1.7	.6	.0	.0						3.9	7.9
SW	.2	1.3	1.1	.4								2.9	7.1
WSW	.2	1.3	1.1	.5	.0							3.1	7.1
W	.4	1.5	1.4	1.0	.3	.0						4.6	8.7
WNW	.4	1.1	1.6	1.3	.3	.3						5.0	10.1
NW	.4	1.4	2.4	2.0	.6	.7	.1					7.5	11.4
NNW	.2	1.0	2.7	2.7	1.6	.8	.1					10.1	12.3
VARBL													
CALM												5.5	
	3.9	20.7	29.6	25.7	9.9	4.4	.4					100.0	11.1

TOTAL NUMBER OF OBSERVATIONS 5423

U.S. AIR FORCE
 CLIMATE BRANCH
 WETAC
 WETAC SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 WETAC APT FARGO ND 74-81 MAC
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 0000-0200
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.3	7.9	5.2	1.5	.9						13.2	12.1
NNE	.7	1.5	1.9	.8	.9	.4						6.2	10.1
NE		1.6	.9	.4	.4	.1						3.5	9.2
ENE		.2	.5	.7								2.2	7.9
E	.2	1.3	1.3	.6								3.4	6.5
ESE		1.3	.4	.1	.3							2.2	7.4
SE		1.3	1.9	2.7	1.1	.3						7.3	11.7
SSE	.7	.9	2.4	2.0	1.3	.7						7.7	12.4
S	.7	3.9	6.3	3.9	1.2	.1						16.1	9.4
SSW	.7	1.1	1.7	.1								3.2	7.2
SW	.6	1.6	.8									3.0	5.4
WSW	.1	.9	.9	.7								2.7	8.1
W		2.2	.8	.1								3.0	6.8
WNW		2.3	1.9	1.2	.3							5.6	8.4
NW	.1	1.7	1.9	1.3	.9	.3						6.3	10.5
NNW	.1	1.6	3.1	2.3	.8	.4						6.3	10.8
VARBL													
CALM												6.3	
	7.4	25.5	30.8	22.0	8.7	3.2						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14 SECTOR APT FARGO ND 74-81
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 MAP NORTH
 1300-0500
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.4	4.0	2.8	1.2	.9	.1					12.4	11.0
NNE		1.7	1.3	1.9	1.2	.3	.1					8.2	12.5
NE	.7	.5	.9	.9	.4							3.4	9.3
ENE	.7	.5	.4	.5								1.7	7.2
E	.1	1.3	1.2	.1								2.3	6.9
ESE		1.9	1.6	.1								3.6	6.9
SE	.1	.6	2.3	2.4	.8	.1						8.6	11.5
SSE		.4	2.3	2.2	1.1	.6						8.9	13.7
S	.7	4.0	6.9	4.4	.7	.3						16.5	9.4
SSW	.3	2.2	.7	.7								3.8	6.8
SW		1.6	.1	.4								2.4	6.5
WSW	.3	.8	.9	.8								3.0	8.2
W	.7	1.4	1.9	.8								5.0	7.1
WNW	.1	1.2	.9	1.5	.3							4.0	10.0
NW		1.3	1.3	2.0	.5							5.2	10.6
NNW	.1	.4	2.3	3.8	.9	.3	.1					8.3	12.3
VARBL													
CALM												8.2	
	3.8	23.3	29.2	25.3	7.1	2.8	.4					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFM 7-100
 WEATHER SERVICE/440

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. STATION 1. FORTOS APT FARGO ND 74-81 MAP NORTH
 STATION NAME YEARS
 ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.4	2.1	4.7	2.7	1.2	1.6	.1					12.3	12.1
NNE		1.3	1.3	.7	.7	.4						3.0	13.7
NE	.1	1.2	.7	1.3	.3	.1						3.8	10.1
ENE	.1	2.2	.4	.4		.1						3.2	7.0
E	.4	1.3	1.5	.3	.1							3.6	7.6
ESE	.3	1.6	1.2	.7	.3							4.0	8.0
SE	.2	1.7	1.9	2.6	.5	.4						7.4	10.6
SSE	.1	.0	1.5	3.1	.7	.5						5.7	12.4
S	.3	3.0	6.7	4.3	.5	.4						10.2	10.0
SSW		2.2	.9	.7	.1							3.9	7.8
SW	.1	1.2	.3	.1								1.7	6.2
WSW	.1	.7	.9	.5								2.3	8.1
W	.4	1.2	1.9	.9	.4							4.0	8.9
WNW	.5	.4	1.2	2.3	.4							4.3	10.7
NW	.1	1.3	1.7	1.5	.1	.3						5.1	10.1
NNW	.4	1.3	2.0	3.6	1.1	.7	.1					9.3	12.1
VARBL													
CALM												6.3	
	3.0	24.1	22.9	25.7	6.5	4.6	.3					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
 TAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 74-21
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 MONTH
 0900-1100
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	4.6	5.5	2.7	1.7	.1					16.4	13.3
NNE	.3	.6	2.2	.9	.5	.5						5.4	10.6
NE		.6	1.7	1.2	.3							3.8	10.6
ENE	.1	.4	2.2	.4	.4							3.5	9.6
E	.1	.3	.7	1.2	.3							2.6	10.6
ESE	.2	.5	1.3	1.1	.1							3.4	9.2
SE		.5	2.0	1.7	.7	.5						5.5	12.4
SSE		.4	1.6	2.6	2.0	.3						6.9	14.3
S	.1	2.2	3.8	5.4	1.3	.4	.1					15.3	11.7
SSW		.7	2.0	1.2								3.9	9.1
SW		1.2	.9	1.2								3.2	9.0
WSW	.3	.5	.9	.5								2.3	8.4
W	.4	1.6	1.9	1.3	.4							5.6	8.9
WNW		.6	.7	2.7	.7	.4						5.0	13.5
NW	.4	.4	.7	2.2	1.1	.5	.1					5.4	14.1
NNW	.4	1.5	2.2	3.0	2.0	.9	.3	.4				10.6	14.0
VARBL													
CALM												3.4	
	5.0	14.1	28.6	32.1	12.5	5.4	.7	.4				100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 744

U.S. NAVAL CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION NAME STATION NAME 74-81 YEARS MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.6	3.2	5.0	2.8	2.4	.5					17.9	14.1
NNE	.1	.7	2.3	1.1	.4	.1						4.3	10.4
NE	.3	.7	1.6	.8	.5							3.9	10.7
ENE		.1	.5	.4	.3	.3						1.6	13.8
E	.3	.5	1.1	1.1	.5							3.5	10.3
ESE	.4	.1	1.1	1.2	.3							3.1	10.2
SE			2.0	1.3	.8	.3						4.4	12.6
SSE		.7	1.1	2.3	2.4	.5						7.3	14.5
S	.2	.3	3.2	7.3	2.0	.1						13.2	12.9
SSW	.7	.5	1.7	.4	.4							3.4	9.5
SW		.9	1.2	1.3								3.5	9.2
WSW		.4	1.7	.5								2.7	8.6
W	.4	1.2	1.7	.9	.1	.1						4.6	8.7
WNW	.1	.3	.9	3.0	.9	.4						5.6	14.1
NW	.4	.4	1.1	2.8	1.3	1.1	.1					7.3	14.2
NNW	.1	1.5	3.3	2.8	3.0	1.2	.5	.1				12.2	14.5
VARBL													
CALM												1.9	
	3.1	10.8	27.3	33.2	15.9	6.6	1.2	.1				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFM 7-1 TAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14	HECTOR APT FARGO ND	74-81	MAP
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			1500-1700
CLASS			HOURE (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.3	4.6	6.3	3.9	2.6	.8	.1				20.6	14.4
NNE	.3	.7	1.9	1.2	.4	.5						3.9	11.2
NE		.5	.9	1.6	.5							3.6	11.6
ENE	.1	.7	.7	.7	.3							2.4	9.3
E	.1	.5	.7	1.3	.1							2.8	10.3
ESE		.7	1.5	.7	.3	.1						2.2	10.0
SE		.4	1.2	1.5	1.1							4.0	12.6
SSE		.5	1.5	3.9	2.0	1.7						9.7	15.1
S	.7	1.2	3.5	5.4	1.1	.3						11.7	11.3
SSW		.7	1.3	.9	.1							2.7	10.6
SW	.3	.3	1.2	.5								2.3	8.6
WSW		.3	1.2	.1	.1							1.7	8.5
W	.7	1.2	1.6	1.2	.3							4.6	9.4
WNW	.3	.7	.9	1.7	.5	.5						4.7	12.7
NW		.5	1.3	2.4	2.6	.8						7.7	15.0
NNW	.1	1.5	2.4	4.0	2.3	.7	.3					11.3	13.6
VARBL													
CALM												1.0	
	2.2	12.0	26.5	33.6	15.5	7.3	1.1	.1				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
 AFMPC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14	WCTOP APT FARGO ND	74-81	MAC
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			1500-2000
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.4	5.7	4.6	3.4	1.1	.5					17.5	12.4
NNE	.4	.5	2.7	2.0	.5	.8						7.3	11.4
NE	.7	1.2	1.5	.7	.3							4.3	8.2
ENE		.9	.5	.4	.1							2.0	9.0
E	.3	1.5	1.2	.8	.1							3.9	8.7
ESE		1.1	1.3	.3	.1							2.8	7.7
SE	.1	2.0	1.7	1.9	.8							6.6	10.0
SSE	.1	.4	2.7	3.4	1.3	1.2						9.1	13.5
S	.7	2.6	4.3	4.4	.8	.3						12.9	10.0
SSW		.4	.9	.3	.3							2.3	9.0
SW	.4	1.3	.7	.1	.1							2.7	6.8
WSW	.3	.7	.7									1.9	5.6
W	.6	.5	.8	.4		.1						2.4	7.9
WNW		1.6	1.6	1.1								4.3	8.5
NW		1.2	1.9	2.7	1.3	.5						7.7	12.5
NNW		1.2	1.9	3.4	.8	.7						7.7	12.3
VARBL													
CALM												4.4	
	3.9	20.5	29.4	26.3	10.1	4.7	.5					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
 AFMTC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14-14	HECTOR AFB FARGO ND	74-81	MAR
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			1170-2300
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	4.2	4.0	4.4	2.2	1.2						10.6	11.1
NNE		1.0	1.7	1.7	.9	.7						5.7	11.8
NE	.0	1.0	1.1	.3	.5	.1						4.2	8.4
ENE		1.0	.7	.3								2.0	6.3
E	.7	1.1	.4	.9	.1							3.2	8.7
ESE	.0	1.0	1.5	.4								4.2	6.6
SE	.0	.9	1.3	2.0	.4	.1						5.4	10.4
SSE	.4	1.1	2.8	3.0	1.3	1.2						7.8	12.7
S	.7	2.4	4.9	4.4	.7	.1						13.2	9.9
SSW		.0	1.1	.7	.1							2.7	9.3
SW		1.2	.5									1.7	6.2
WSW	.1	1.2	1.1	.5								3.0	7.9
W		2.1	1.9	.3	.1							4.3	7.4
WNW	.1	1.1	.8	.3	.1		.1					2.6	8.6
NW	.0	1.7	1.1	2.8	.7	.5						7.1	11.6
NNW	.3	1.0	2.7	1.5	.7	.8	.1					7.9	11.2
VARBL													
CALM												4.6	
	5.0	26.2	27.6	23.6	7.9	4.8	.3					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 743

AL CLIMATOLOGY BRANCH
 11-11-61
 11-11-61 SERVICE/MAO

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

11-14 STATION HECTOR APT FARGO ND 74-91 YEARS
 STATION NAME CLASS ALL WEATHER
 CONDITION
 MONTH ALL
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.3	4.2	4.7	2.3	1.6	.3	.0				15.9	12.2
NNE	.2	1.2	1.9	1.3	.7	.5	.0					5.7	11.2
NE	.3	1.0	1.2	.9	.4	.1						3.4	9.6
ENE	.1	1.0	.7	.5	.1	.1						2.4	6.6
E	.3	1.0	1.0	.8	.2							3.2	8.5
ESE	.2	1.1	1.2	.6	.2	.0						3.3	6.2
SE	.1	1.0	1.9	2.0	.8	.2						5.9	11.4
SSE	.1	.7	2.0	2.8	1.5	.9						6.0	13.6
S	.4	2.4	4.9	4.9	1.0	.3	.0					14.0	15.5
SSW	.1	1.1	1.3	.6	.1							3.2	8.5
SW	.2	1.2	.7	.5	.0							2.5	7.4
WSW	.2	.7	1.1	.5	.0							2.4	8.0
W	.3	1.4	1.6	.8	.2	.0						4.3	8.2
WNW	.2	1.0	1.1	1.7	.4	.2	.0					4.6	11.2
NW	.2	1.1	1.4	2.2	1.1	.5	.0					6.5	12.5
NNW	.2	1.4	2.4	3.0	1.4	.7	.2	.1				9.5	12.8
VARBL													
CALM												4.6	
	3.5	19.5	28.5	27.7	10.5	4.9	.6	.1				100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 1951

U.S. AIR FORCE CLIMATE BRANCH
 WRIGHT PATTENSON AFB
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 15 15000 APT FARGO ND 74-81 4000-12000
 STATION STATION NAME YEARS MONTHS
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.1	4.3	4.7	2.1	.4						12.3	11.5
NNE	.1	1.7	2.2	1.8	.3							6.7	6.3
NE	.4	1.4	1.7	1.7	.1							4.6	6.9
ENE		1.4	2.4									3.7	6.4
E	.3	2.7	2.6	.7	.1							6.5	7.2
ESE	.1	2.1	1.7	2.6	.3							6.1	6.8
SE		1.4	1.4	3.3	1.3	.1						7.6	11.9
SSE	.1	.4	1.8	4.6	1.9	1.3						9.9	14.2
S	.3	3.2	3.1	2.1								9.6	8.2
SSW	.3	1.7	1.1	.1								2.3	6.5
SW	.1	1.2	1.7	.3								2.6	7.1
WSW	.7	1.7	.4	.1								1.8	5.8
W	.3	1.4	1.2	1.0								3.9	8.1
WNW	.4	1.1	2.1	1.2	.1							5.2	8.3
NW	.2	1.1	1.5	.1	.8	.3						4.2	10.5
NNW		1.8	2.4	1.1	1.1							6.4	10.8
VARBL													
CALM												3.5	
	3.5	24.8	30.6	24.9	7.9	1.8						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 720

1. CLIMATE BRANCH
 2. TAC
 3. WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 10 STATION HECTOR APT FARGO ND STATION NAME 74-81 YEARS APR
 CLASS ALL WEATHER 1300-0500 NORTH
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.1	4.4	4.0	1.7	.0						14.3	10.9
NNE	.3	1.7	1.7	1.8	.4							5.1	10.1
NE	.3	1.7	.8	1.1								3.3	7.8
ENE	.1	2.1	1.0	.4								3.6	7.1
E	.4	2.1	2.1	1.5	.4							6.5	6.8
ESE	.4	1.5	1.4	1.9	.6	.1						6.0	9.8
SE	.7	1.3	2.4	2.9	.7	.1						7.4	11.0
SSE		.4	2.9	4.3	1.0	1.2						9.7	13.6
S	.4	3.2	3.2	3.3		.1						10.3	8.7
SSW	.3	1.2	1.1	.1								3.5	6.1
SW	.3	.7	.7	.1								1.4	6.0
WSW	.1	.0	.4	.3								1.7	7.3
W	.1	1.3	1.5	.7								4.2	7.9
WNW		1.1	2.2	.7	.1							4.2	6.5
NW	.3	1.5	1.5	.7	.8							4.3	10.5
NNW	.3	1.3	2.5	1.0	1.5							7.1	10.2
VARBL													
CALM												0.0	
	3.9	25.1	29.3	25.0	7.2	2.5						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 721

U.S. AIR FORCE
 CLIMATE BRANCH
 WASHINGTON, D.C.
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 1- HECTOR APT FARGO ND 74-81 APP
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 0600-0600
 CLASS HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.2	3.9	3.9	1.9	1.1	.1					13.3	12.4
NNE	.2	.6	3.1	2.6	.4							6.9	10.5
NE	.2	1.0	.6	1.7	.1							3.6	9.5
ENE	.7	.8	1.0	1.4	.3							4.2	8.9
E	.7	1.0	1.4	1.2								3.9	8.9
ESE	.7	1.7	1.4	2.1	.7							5.4	9.9
SE	.6	1.7	2.5	3.1	1.1	.1						7.0	10.7
SSE		1.0	1.8	4.6	1.2	1.4	.1					10.1	14.5
S	.1	3.2	3.7	3.5	.3	.1	.1					11.1	9.7
SSW	.1	.6	1.0	.3	.1	.1						2.2	9.4
SW	.2	.4	.6									1.2	5.9
WSW	.3	.4	.1	.1		.1						1.1	6.0
W	.2	1.2	2.1	1.1	.1	.1						5.3	9.0
WNW	.3	1.1	1.4	.6		.1						3.5	8.1
NW		1.0	2.2	1.5	.4	.3	.1	.1				5.7	11.8
NNW		1.5	1.1	2.6	1.1	.3						5.7	12.1
VARBL													
CALM												8.0	
	4.2	19.3	27.8	30.3	7.9	3.9	.6	.1				100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 720

CLIMATE CLIMATOLOGY BRANCH
 AFSS STAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION APT FARGO ND 74-81 APP MONTHS 1900-1100
 STATION STATION NAME YEARS HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	1.9	6.0	3.6	1.7	.6					14.3	15.9
NNE		.7	2.9	3.6	1.4							1.0	12.0
NE	.6	.6	1.1	1.8	.8							4.9	10.7
ENE		.7	1.2	1.0	.1							3.1	9.6
E	.1	.4	1.0	1.5	.1							3.2	10.9
ESE	.7	.6	.8	1.7	1.0	.1						4.4	12.2
SE	.6	.6	2.8	3.6	1.0	.1	.1					8.7	11.9
SSE	.1	.4	2.9	3.1	1.5	1.8	.1					10.0	14.3
S	.4	1.2	3.7	5.3	1.9	.4	.1					13.2	12.7
SSW		.3	.3	.4	.4	.6	.1					2.6	14.1
SW		.7	1.1	.4	.4							2.0	10.1
WSW	.1	.7	.4	.7								1.9	8.8
W	.1	.6	1.1	1.4	.3							3.5	10.3
WNW		1.0	.7	.8	.4		.3					3.5	11.2
NW	.7	1.0	1.8	1.2	.6	.6		.1				5.6	12.4
NNW	.1	1.2	2.5	2.6	1.7	.6	.1					6.9	12.9
VARBL													
CALM												1.1	
	3.2	11.4	26.4	35.1	15.3	5.8	1.5	.1				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE
 METEOROLOGICAL SERVICE/AFMPC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1014 HECTOR APT FARGO ND STATION NAME 74-81 YEARS APP MONTH 1000-1400 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	3.1	5.3	4.6	2.5	.4					17.1	15.7
NNE		.7	2.4	4.4	.8	.3						8.6	12.2
NE	.1		1.8	1.9	.7							4.6	12.2
ENE	.1	.3	1.0	1.4	.1							2.9	10.1
E	.6	.7	1.1	1.0	.7	.1						4.2	10.7
ESE		.6	1.0	1.2	1.1	.1						4.0	12.5
SE	.1	.7	1.4	3.3	1.9	.1						7.6	13.5
SSE	.1	.7	.3	4.2	2.8	1.8						6.9	16.1
S	.1	1.4	2.2	3.3	1.7	.7						6.4	12.9
SSW		.4	.8	.3	.3	.7	.1					2.6	14.6
SW	.1	.4	.8	1.1	.6	.1						3.2	11.9
WSW		.3	.6	1.5	.6		.1					3.1	13.4
W		.6	1.4	1.0	.3	.4						3.6	11.9
WNW		.6	1.7	1.5	1.2		.1					3.1	12.6
NW		1.1	.7	1.4	.7	.7	.1	.1				4.6	14.1
NNW	.1	.7	2.2	3.1	.8	.6	.6	.1				3.5	14.2
VARBL													
CALM												.7	
	1.5	10.1	22.4	36.0	18.9	8.6	1.5	.3				100.0	13.5

TOTAL NUMBER OF OBSERVATIONS 720

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 - 14 STATION HECTOR APT FARGO ND 74-81 YEARS NORTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.4	3.1	4.7	4.3	2.5	.1					16.4	14.7
NNE	.1	.2	1.5	5.6	.8	.3						7.2	12.7
NE	.1	1.0	2.5	2.9	.7	.1						7.4	11.0
ENE		.3	1.1	1.5								2.9	11.0
E	.3	1.7	1.4	1.0	.4	.1						4.2	9.6
ESE		.4	.7	1.2	1.2							3.6	12.8
SE	.1	.7	2.5	3.7	1.0	.1						8.2	12.1
SSE		.2	1.2	3.2	2.4	1.4						7.0	15.4
S	.1	.7	2.6	3.3	1.2	.7						5.7	12.7
SSW	.3	.5	1.0	1.1	.4	.1						3.5	11.2
SW	.1	.7	.4	.8	.6	.1						2.5	12.3
WSW	.1	.6	.6	.6								1.8	8.5
W		.3	.9	2.2	.6	.1						4.7	12.7
WNW		.1	1.5	1.1	1.0	.3	.1					4.2	13.6
NW	.1	.6	1.9	1.1	.7	.1	.1					4.7	11.7
NNW		.3	1.0	2.8	2.1	1.2	.1	.1				7.6	16.4
VARBL													
CALM												1.5	
	1.8	10.1	23.9	36.9	17.4	7.4	.6	.1				100.0	12.8

TOTAL NUMBER OF OBSERVATIONS 720

1. FAL CLIMATOLOGY BRANCH
 2. TAC
 3. FATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 14 STATION HECTOR APT FARGO ND 74-81 APP NORTH
 STATION STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 1800-2100
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.2	2.1	3.5	5.4	3.1	.6						15.6	12.4
NNE	.1	2.1	2.2	3.1	.3							8.5	9.5
NE	.3	2.6	2.5	2.8	.7	.1						9.2	9.7
ENE	.3	.7	1.7	1.1	.1							3.9	6.7
E	.1	1.4	1.1	.7	.1	.1						3.6	9.0
ESE		1.7	1.4	1.7	.6	.1						5.4	10.4
SE	.3	1.7	3.3	4.3	1.1	.3						11.0	11.1
SSE		.7	1.9	3.3	1.1	.3						7.0	12.4
S	.7	2.1	3.2	2.6	.7	.1						9.0	9.9
SSW	.1	.1	.4	1.2								1.9	11.3
SW	.2	.4	.1	.7	.1							1.7	9.4
WSW		.6	.3	.3								1.1	8.4
W	.1	1.2	.8	1.8								4.0	9.6
WNW		.6	1.2	1.2	.3							3.3	10.3
NW		.9	1.7	.7	.4							3.6	9.9
NNW	.4	1.1	.7	3.1	2.1	.3						7.6	13.3
VARBL													
CALM												2.8	
	2.6	21.5	26.1	34.0	10.7	2.2						100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 720

NATIONAL METEOROLOGICAL SERVICE
 METAC
 AIR FORCE SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 1 STATION HELTOR APT FARGO ND STATION NAME 74-81 YEARS APD
 CLASS ALL WEATHER MONTH 2185-2390
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.1	3.2	5.1	2.6	.3						13.6	12.1
NNE	.7	1.7	2.6	2.8	.1							7.9	9.2
NE	.3	1.2	1.9	1.8								5.3	8.9
ENE	.7	2.1	1.9	1.5								5.8	8.5
E	.4	1.7	2.9	.6	.3	.1						6.0	8.3
ESE		2.2	1.2	1.2	.6							5.3	9.1
SE		1.3	2.6	3.3	.8	.3						10.4	10.3
SSE	.1	1.8	2.6	4.9	1.2	.6						11.2	11.9
S	.3	1.3	2.2	2.6	.7	.1	.1					7.9	10.5
SSW	.3	.4	1.0	.6								2.2	6.1
SW	.1	.7	.4	.1								1.4	6.5
WSW		1.4	.3									1.7	5.6
W	.1	1.2	1.4	1.4	.4							5.3	9.1
WNW	.3	.0	1.1	.4								2.6	7.5
NW	.4	.4	1.2	.6	.4							3.1	9.2
NNW	.3	1.4	1.8	1.2	1.0	.1						5.6	10.6
VARBL													
CALM												4.4	
	3.2	25.0	28.6	28.2	8.2	1.5	.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE
METAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14 HECTOR APT FARGO ND 74-81

STATION STATION NAME YEARS

ALL WEATHER

CLAS

CONDITION

APR
MONTH
ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	3.4	4.8	3.0	1.3	.2					14.3	13.3
NNE	.2	1.2	2.3	3.2	.6	.1						7.6	10.8
NE	.3	1.2	1.5	2.0	.4	.0						5.4	10.0
ENE	.2	1.0	1.4	1.0	.1							3.6	8.7
E	.3	1.4	1.7	1.0	.3	.1						4.8	8.9
ESE	.7	1.3	1.2	1.7	.7	.1						5.2	10.5
SE	.7	1.4	2.4	3.5	1.1	.2	.0					6.7	11.5
SSE	.1	.3	1.9	4.0	1.6	1.2	.0					9.7	14.1
S	.3	2.1	3.0	3.3	.8	.3	.1					9.8	10.7
SSW	.2	.7	.8	.5	.2	.2	.0					2.6	10.1
SW	.2	.7	.6	.5	.2	.0						2.1	7.3
WSW	.1	.7	.4	.5	.1	.0	.0					1.6	6.7
W	.1	1.1	1.3	1.3	.2	.1						4.2	6.7
WNW	.2	.3	1.5	1.0	.4	.1	.1					3.9	10.2
NW	.2	.9	1.6	.9	.6	.2	.1	.1				4.5	11.5
NNW	.2	1.2	1.8	2.2	1.4	.4	.1	.0				7.3	12.6
VARBL													
CALM												3.8	
	3.1	18.4	26.9	31.3	11.7	4.2	.5	.1				100.0	10.9

TOTAL NUMBER OF OBSERVATIONS 5760

CLIMATE CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 WEATHER APT FARGO ND 74-81 MAY
 STATION MONTH
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	3.0	2.2	3.1	1.7	.5						12.2	10.5
NNE	.1	1.2	1.1	.5	.1							3.1	5.0
NE	.1	.8	1.2	.4								2.6	6.0
ENE	.4	1.2	1.2	.3								3.1	6.5
E	.1	2.3	3.4	1.6								7.4	8.2
ESE	.7	2.3	2.0	.3								5.2	6.3
SE	.3	2.4	3.5	1.9	.4							8.5	8.8
SSE	.5	1.5	3.1	5.9	2.2	.4						13.7	12.1
S	.3	3.4	5.5	5.4	.4	.3						19.2	9.3
SSW	.1	1.3	.7	.1								2.3	6.9
SW	.4	1.0	.4	.3								2.5	5.9
WSW	.1	1.3	1.2									2.7	6.3
W	.3	2.2	.8	.3								3.6	6.4
WNW	.7	1.1	1.1	.9								3.4	8.6
NW		.7	1.3		.1							2.2	8.1
NNW	.1	1.5	1.9	1.6	.8	.1						6.2	10.3
VARBL													
CALM												6.3	
	4.6	28.6	30.5	22.6	5.8	1.3						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 744

SURFACE WINDS

1-14	RECTOR APT FARSON	74-81	MAY
STATION	STATION NAME	YEARS	MONTH
	ALL WEATHER		0300-0500
	CLASS		HOURS (L.S.T.)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.5	3.1	3.1	1.6	.5	.1					12.2	10.6
NNE	.7	1.1	2.0	.4	.1							3.9	8.1
NE	.5	.7	.4	.3								1.9	5.0
ENE	.4	1.0	2.2	.3								4.7	6.8
E	.4	1.7	1.2	.8								4.2	7.1
ESE	.8	1.7	.8	.9								4.3	6.9
SE	.1	2.4	3.5	2.2	.3	.1						3.6	9.0
SSE	.3	2.0	3.0	6.9	1.7	.4						14.2	12.1
S		4.4	5.8	4.3	.1							14.7	8.6
SSW	.1	2.0	.4	.8								3.4	7.4
SW	.3	.6	.1	.1								1.3	5.4
WSW	.1	.3	.9	.1								1.5	7.5
W	.5	1.7	1.5	1.3								5.1	7.0
WNW	.1	1.2	.8	.5								2.7	7.5
NW	.4	1.6	1.6	.8		.1						4.6	7.0
NNW	.4	.3	1.5	1.9	.9							5.5	10.7
VARBL													
CALM												7.3	
	5.1	28.0	28.8	24.7	4.8	1.2	.1					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
 AFM TAC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 10 STATION APT FARGO ND 74-81 MAY
 STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 0600-0800
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.2	3.4	5.2	2.3	.7						13.8	12.2
NNE	.3	.5	2.4	1.3	.4	.1						5.1	9.5
NE	.3	1.3	2.2	.4								4.2	7.2
ENE	.7	1.9	.8	.4								3.8	6.0
E	.6	1.3	.9	.8								3.6	7.8
ESE	.7	.7	.9	1.1								3.2	8.4
SE	.1	1.7	4.2	2.2	.3							8.5	9.1
SSE	.4	1.2	3.4	7.8	1.2	.5						14.5	12.5
S	.7	3.1	5.4	4.6	.4	.1						14.1	9.9
SSW	.7	.4	1.5	1.2								3.8	8.4
SW	.1	.7	.4	.9	.1							2.4	9.7
WSW		.7	.3	.5	.3							1.6	10.7
W	.3	.7	1.6	.7								3.4	7.9
WNW	.3	.4	.8	1.9	.4							3.8	11.1
NW		.7	.9	.9	.5							3.0	10.6
NNW	.1	1.2	1.7	2.3	.9							6.3	11.0
VARB													
CALM												5.0	
	4.4	19.0	30.8	32.5	6.9	1.5						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 744

USAF CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FAPGO ND 74-81 MAY 1950-1150
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.8	6.3	3.9	.9						15.9	13.3
NNE		.2	1.5	3.4	.4							5.2	11.2
NE	.1	.4	1.9	.9	.3							3.0	10.1
ENE		.3	.4	.5								1.2	8.7
E	.1	.7	1.5	.9	.3							3.5	9.5
ESE		1.3	1.6	1.1	.5							4.6	9.4
SE		1.3	2.3	3.1	.3							7.0	10.5
SSE	.3	.7	2.0	5.5	2.8	.6	.1					12.4	14.3
S	.9	1.2	3.0	6.0	3.8	.4						15.2	13.0
SSW	.1	.5	1.7	1.6	.9							5.0	11.7
SW		1.2	.5	1.1	.3							3.1	10.3
WSW	.3	.3	.4	.7	.4							2.6	9.3
W	.3	.7	1.3	.7	.7							3.6	10.3
WNW		.4	1.1	2.0	.4	.1						4.4	11.6
NW	.1	.4	.5	2.0	1.1	.1						4.3	13.6
NNW	.1	.3	1.1	2.7	1.2							5.9	12.2
VARBL													
CALM												1.0	
	2.6	14.0	23.7	38.6	17.2	2.3	.1					170.0	11.9

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
METEOROLOGICAL BRANCH
METAC
STATION SERVICE/PAO

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 1. STATION NAME: FORT APT FARGO ND YEARS: 74-81 MONTH: MAY
CLASS: ALL WEATHER
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.3	2.7	4.7	3.5	1.1						13.5	13.9
NNE		.7	1.2	3.9	.8							6.6	12.2
NE		.4	1.1	1.5	.1	.1						3.6	10.6
ENE		.4	1.6	.5								2.6	8.8
E	.1	1.2	2.2	1.2	.1	.1						5.5	9.2
ESE	.3	1.1	2.2	1.1	.3							4.4	8.5
SE	.1	.5	1.6	3.2	1.2							6.7	12.3
SSE		1.5	1.3	3.9	1.7	.7						4.3	13.2
S		1.5	2.8	5.7	4.7	2.0	.5					17.2	15.2
SSW	.1	.4	1.2	1.3	.7	.1						3.9	12.1
SW		.7	1.1	1.7	.4							3.9	11.1
WSW	.1	.4	.7	.5	.7	.1						2.6	12.0
W	.1	.3	.5	1.6	.5	.3						3.4	13.0
WNW		.7	.7	1.3	.3	.1						3.1	11.6
NW		.4	.7	2.2	1.1	.3						4.6	14.5
NNW	.1	.7	2.3	2.6	1.7	.7						3.1	13.4
VARBL													
CALM												1.2	
	1.2	12.7	23.8	37.0	17.9	5.7	.5					100.0	12.6

TOTAL NUMBER OF OBSERVATIONS 742

U.S. CLIMATOLOGY BRANCH
 AFMTC
 WEATHER SERVICE/AFAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1414 STATION NAME FORT APT FARGO ND YEARS 74-81 MONTH MAY
 CLASS ALL WEATHER
 HOURS (L.S.T.) 1500-1700
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.1	.2	3.1	6.2	3.2	1.1						14.7	13.4
NNE		.5	.9	3.5	.7							5.7	12.6
NE	.1	.7	1.5	1.5								3.5	12.5
ENE	.1	.7	2.2	.7	.1							3.9	13.1
E	.1	.5	2.3	.8								3.3	13.3
ESE		1.2	1.6	2.4	.3							5.5	10.1
SE	.1	1.1	2.6	2.6	1.1	.1						7.5	11.3
SSE		.7	1.1	3.6	2.3	.4						5.1	14.4
S	.4	1.3	2.7	5.4	4.5	2.0	.1					16.2	14.9
SSW		.7	1.1	2.0	.9							4.7	12.2
SW		.7	.8	.9	.9							3.4	12.2
WSW	.1	.1		1.3	.4	.3						2.3	14.1
W	.1	.4	1.6	1.5	.8							4.4	11.6
WNW		.3	.5	1.7		.1						2.7	12.2
NW	.1	.7	1.2	2.6	.7	.1						5.7	11.5
NNW		.7	1.1	2.3	1.7	.3						6.1	13.9
VARBL													
CALM												1.7	
	1.5	11.6	23.6	30.0	18.0	4.4	.1					100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 743

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14 HECTON ART FARGO ND 74-81
STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
MAY 1800-1800
MONTHS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	3.8	5.9	2.6	.5						14.0	12.6
NNE	.4	1.2	3.1	2.3	.1							7.2	9.3
NE	.3	2.2	2.3	1.3								6.1	8.3
ENE	.1	1.2	1.1	.3								2.7	7.0
E	.5	2.3	2.0	.4								5.3	6.9
ESE	.1	2.4	2.0	1.6	.1							5.3	8.4
SE	.1	1.6	3.4	3.5	.7							9.4	10.4
SSE		1.1	3.4	5.1	.8	.5						10.9	12.1
S	.1	2.0	2.7	5.3	1.9	.3						12.3	12.1
SSW	.1	.4	.9	1.3	.3							3.1	11.0
SW	.1	.3	1.2	.5	.4							2.1	9.9
WSW	.1	.3	.7	.3								1.3	8.8
W		.5	.8	.9	.5	.1						2.0	11.9
WNW	.1	.7	1.5	.5								2.8	8.2
NW	.1	.1	1.2	1.2	.3							3.4	10.4
NNW	.3	.5	1.8	2.2	1.1	.1						5.9	11.9
VARBL													
CALM												2.6	
	2.6	19.3	31.9	32.8	8.8	1.6						100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 741

NAVAL OCEANOGRAPHY BRANCH
 OFFICE
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14 STATION NAME ASTOR APT FARGO ND YEARS 74-81 MONTH MAY
 CLASS ALL WEATHER HOURS 2100-2300
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.8	5.0	3.9	1.6	.5						14.1	13.9
NNE		2.4	1.6	.1								4.2	6.2
NE	.1	1.2	1.6	.5								3.5	7.6
ENE	.5	2.3	1.5	.3								4.5	6.4
E	.7	2.7	2.2	.7								5.8	7.7
ESE	.9	3.5	2.7	1.1	.3							5.5	7.3
SE	.5	3.2	3.8	2.4	.5	.1						10.7	9.5
SSE	.3	1.9	2.6	5.0	.9	.4						10.6	11.6
S	.3	3.2	4.1	4.6	.3	.1						12.3	9.8
SSW	.7	1.1	.5	.5								2.4	7.3
SW	.1	.5	.5									1.5	6.5
WSW	.5	1.4	.9	.1								2.7	6.4
W	.1	1.4	.9	1.1	.3							3.7	9.0
WNW	.5	.5	1.2	.1								2.4	7.1
NW	.1	1.4	.3	.7	.3		.1					2.8	9.9
NNW	.1	1.2	.8	1.4	.4	.3						4.2	10.9
VARBL													
CALM												5.7	
	4.7	30.9	20.9	22.6	4.6	1.5	.1					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 730

LOCAL CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 74-P1 MAY
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLAS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.3	3.2	4.6	2.6	.7	.0					17.4	12.3
NNE	.1	1.1	1.7	1.9	.3	.0						5.2	10.1
NE	.2	1.1	1.5	.9	.1	.0						3.7	8.5
ENE	.3	1.2	1.4	.4	.0							3.3	7.5
E	.7	1.6	2.0	.9	.1	.0						4.6	8.0
ESE	.4	1.7	1.7	1.2	.2							5.3	8.7
SE	.2	1.8	3.1	2.6	.6	.1						8.4	9.9
SSE	.7	1.4	2.4	5.5	1.7	.5	.0					11.7	12.7
S	.3	2.5	3.9	5.2	2.1	.7	.1					14.6	11.8
SSW	.2	.7	1.7	1.1	.4	.0						3.6	10.1
SW	.1	.7	.6	.7	.3							2.6	9.5
WSW	.2	.6	.6	.5	.2	.1						2.2	9.3
W	.2	1.0	1.1	1.0	.4	.1						3.8	9.7
WNW	.2	.7	1.0	1.1	.1	.1						3.2	10.5
NW	.1	.8	1.0	1.3	.5	.1	.0					2.3	11.1
NNW	.2	.7	1.5	2.1	1.1	.2						6.0	11.7
VARBL													
CALM												4.0	
	3.4	20.5	27.9	31.2	10.5	2.4	.1					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 5942

U.S. AIR FORCE
 CLIMATE DIVISION
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10 SECTOR APT FARGO ND 73-80 JUN
 STATION NAME YEARS MONTHS
ALL WEATHER
 CLASS 0000-0200
 CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.8	2.9	1.8								7.6	8.2
NNE	.4	1.9	2.1	.6	.4							6.4	8.0
NE	.1	.7	.6	1.2								2.0	9.6
ENE		1.6	.4	.1								2.1	6.2
E	.1	.4	1.2	.6								2.4	8.2
ESE	.1	1.4	1.2	1.4								4.2	8.5
SE	.4	1.9	1.1	3.2	.7	.3						7.6	10.7
SSE		1.4	3.2	7.8	2.1							14.4	12.4
S	.7	5.7	5.4	4.2	1.1	.3						16.7	9.9
SSW	.1	2.8	2.2	.7								5.8	7.1
SW	.1	1.6	1.5	.6	.1							3.9	7.8
WSW		1.2	1.7	.1								3.1	7.1
W	.4	1.4	2.1	.7								4.6	7.5
WNW	.4	2.1	1.8	1.4	.1							5.8	7.9
NW	.1	.6	1.1	.7								2.5	8.4
NNW		1.1	1.4	1.0	.3							3.7	9.4
VARBL													
CALM												7.5	
	3.3	27.8	30.0	26.0	4.9	.6						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 720

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1-14 HECTOP APT FARGO ND STATION NAME 73-80 YEARS JUN NORTH
ALL WEATHER CLARE 0300-0500 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.9	1.5	1.8	.6							7.1	9.2
NNE	.4	1.4	1.7	1.1	.1							4.7	8.8
NE	.4	1.0	.8	.4	.1							2.8	7.2
ENE		.7	.3	.1	.1							1.2	8.3
E	.1	.8	.8	1.5	.3							3.6	10.7
ESE	.6	1.3	.8	.4								3.6	6.4
SE	.4	1.6	2.4	2.2	.6							7.4	9.7
SSE		1.0	3.1	7.4	1.8							13.2	12.4
S	.7	4.2	6.0	4.0	.1							15.0	8.7
SSW	.3	3.9	1.8	1.1	.3							7.4	7.3
SW	.4	1.1	.8	.4								2.8	7.0
WSW	.4	1.1	1.4	.8	.1							3.9	8.1
W	.6	1.4	2.5	1.0								5.4	7.5
WNW		1.4	1.8	1.1								4.3	8.6
NW	.4	1.1	1.1	1.2								3.9	8.6
NNW	.1	1.8	2.1	1.5								5.6	8.5
VARBL													
CALM												0.2	
	5.1	27.4	28.9	26.2	4.2							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE CLIMATE BRANCH
AFETAC
ALL WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 - 14 STATION DIRECTOR APT FAPGO MO 73-80 YEARS
STATION NAME CLASS
CONDITION
JUN 1960-1980
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	3.7	3.6	1.0	.3	.1					11.0	10.9
NNE		1.5	2.6	2.2	.1							6.5	9.6
NE	.4	.5	.8	.6								2.4	7.8
ENE	.1	1.0	1.0	.4	.1							2.6	6.0
E	.1	1.2	1.1	.4		.1						3.1	8.1
ESE	.1	.7	.8	1.0	.3							2.7	10.2
SE	.3	1.2	2.6	2.5	.6							7.2	10.2
SSE	.1	1.1	2.2	5.7	1.1	.3						10.4	12.5
S	.4	2.2	6.0	7.2	.3							16.1	10.3
SSW	.4	2.2	2.5	1.5								6.7	8.3
SW	.3	.7	1.8	.6	.1							3.5	8.6
WSW	.1	1.1	1.9	1.4								4.6	8.9
W	.3	1.5	2.2	1.5	.3							5.8	9.0
WNW		1.1	2.8	1.4	.6							5.8	9.9
NW	.3	.1	1.4	.6	.1							2.5	9.4
NNW		1.0	1.4	2.1	.4							4.7	10.6
VARBL													
CALM												4.0	
	3.5	19.0	35.0	32.6	5.0	.7	.1					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE
 ALPHAC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1-14 STATION NAME 73-60 YEARS MONTH 1960-1960
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.7	2.9	4.7	1.1	.8	.1					11.5	12.3
NNE	.1	.4	1.2	2.5	.7							5.4	11.5
NE		1.7	1.1	1.4	.1							4.3	6.9
ENE	.1	.7	1.2	.1								2.2	7.4
E		.6	1.2	.4	.4	.1						2.8	10.6
ESE		.6	.7	1.2	.1	.1						2.8	11.4
SE		1.7	1.0	2.1	.6	.1						4.7	11.4
SSE		.4	2.1	4.4	1.8	.6						9.3	13.8
S	.3	1.4	4.3	10.4	2.8	.1	.1					19.4	12.5
SSW		.6	1.2	1.9	.6	.1						4.4	12.1
SW		.1	1.1	2.5	.4							4.2	11.7
WSW		.3	1.9	1.2	.4	.1						4.0	11.5
W	.5	1.2	2.2	1.4	1.2	.4						6.8	11.2
WNW		.3	1.1	3.3	1.1							5.8	13.6
NW		.6	1.1	2.1	.8	.1						4.7	12.9
NNW	.1	.7	1.7	3.5	.3	.3						6.5	11.9
VARBL													
CALM												1.0	
	1.1	12.5	26.2	43.3	12.5	3.1	.3					100.0	11.9

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION NAME ALL WEATHER YEARS 73-80 MONTHS JUN 1200-1400 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	1.9	4.7	1.7	1.0						10.5	13.2
NNE	.1	.4	1.5	1.9	.4							4.4	11.2
NE		.5	.8	1.1	.1							2.5	10.1
ENE		.5	1.0	.6	.1							2.2	10.0
E		1.1	1.0	.8								2.9	9.0
ESE	.1	.7	1.1	1.2	.3							3.5	10.2
SE		1.1	1.6	1.8	.7	.1						5.5	11.5
SSE		.7	1.0	4.2	3.9	.3						9.6	15.6
S	.1	1.1	2.9	7.2	3.7	.3						15.4	13.6
SSW		.1	1.2	1.7	.6	.1						3.7	13.1
SW		.5	1.5	1.5	.4	.3						4.6	11.7
WSW		.3	1.8	.8	.3							3.2	10.6
W		1.1	3.1	2.4	1.9	1.0	.1					9.6	13.5
WNW		.6	1.0	2.8	1.2	.3						5.8	13.2
NW		.7	1.2	4.0	1.4	.7						8.1	13.7
NNW	.1	.7	1.4	3.9	1.1	.3						7.5	13.0
VARBL													
CALM												.4	
	.7	11.5	24.3	40.7	17.9	4.3	.1					100.0	12.6

TOTAL NUMBER OF OBSERVATIONS 720

CLIMATE CLIMATOLOGY BRANCH
 TAO
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14 STATION NAME: HECTOR APT FARGO ND YEAR: 73-80 MONTH: JUN
 CLASS: ALL WEATHER HOURS (L.S.T.): 1500-1700
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.7	1.7	5.8	1.4	.6						10.4	13.0
NNE	.1	.1	1.5	2.5	.7							5.3	12.3
NE		.6	1.7	1.9	.1							4.3	10.3
ENE		.8	.7	.4			.1					2.1	9.8
E		.8	.8	.8	.1							2.6	9.7
ESE		1.1	1.0	.3								2.4	8.1
SE	.1	.1	2.1	2.2		.1						4.7	11.0
SSE		1.0	1.1	4.4	3.2	.3						10.0	14.0
S	.1	.6	2.5	6.0	4.0	1.0						14.2	14.6
SSW		.6	.8	1.7	.6	.4						4.0	13.4
SW		1.0	1.8	1.4	.4							4.6	9.9
WSW		.4	1.7	1.2	.4							3.7	11.2
W	.4	.8	2.2	3.6	.7	.3						8.1	11.7
WNW		.8	1.4	2.2	2.8	.6						7.8	14.5
NW	.1	.7	1.1	4.3	1.7							7.9	13.2
NNW		.1	2.1	3.9	1.0	.3						7.4	13.2
VARBL													
CALM												.8	
	1.2	10.3	24.2	42.8	17.1	3.5	.1					100.0	12.5

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 RECTOR APT FARGO ND 73-80 JUN
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
1800-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.3	2.4	3.9	1.4	.8	.1					7.6	13.1
NNE	.3	1.5	2.9	2.1	.6	.1						7.5	9.7
NE		1.5	2.4	1.2								5.4	8.5
ENE	.1	.3	1.2	.4								2.1	7.0
E		1.2	1.5	.8								3.6	8.2
ESE		1.1	1.8	.8								3.7	8.3
SE	.1	1.0	1.7	5.0	.4							6.2	11.5
SSE		.6	2.4	5.4	.8	.3						9.7	12.3
S		1.7	4.2	5.4	.7	.3						12.2	11.1
SSW	.3	.7	1.5	1.0	.1							3.6	9.2
SW	.3	1.0	.7	1.0	.3							4.0	6.5
WSW	.1	1.2	1.2	.6	.1							3.3	8.0
W	.1	.8	2.4	.8	.3	.3						4.7	9.9
WNW		.8	2.4	2.9	1.8	.3	.1					8.3	12.7
NW		1.1	2.1	2.4	.8	.1						6.5	11.4
NNW		.3	2.6	2.5	.1							6.1	10.5
VARBL													
CALM												1.2	
	1.5	17.6	33.3	36.2	7.5	2.2	.3					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 720

ALFAL CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 JUN
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 4130-2300
 CLASS HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	3.3	2.6	2.4	.3							6.7	8.7
NNE	.4	2.6	1.2	1.2	.1	.3						6.5	8.4
NE	.1	1.6	1.4	.7								4.0	7.4
ENE	.7	1.5	.4		.1							2.4	6.2
E	.1	1.3	2.1	.3								4.3	7.0
ESE	.3	2.1	1.1	1.0		.1						4.6	7.8
SE	.3	2.6	2.4	6.7	.4							12.4	10.3
SSE		.7	3.5	5.6	.7							10.4	11.7
S	.4	3.2	4.4	2.8	.6	.1						12.2	8.6
SSW	.3	3.2	1.7									5.1	6.2
SW	.1	2.9	1.0	.1								4.2	6.0
WSW	.4	1.7	1.7	.3		.1						4.2	7.4
W	.6	1.8	2.4	1.4								6.1	6.7
WNW	.3	1.2	.8	.7								3.1	7.7
NW	.4	.6	1.1	1.1	.4							3.9	9.4
NNW		1.5	.7	.8	.3							3.3	8.9
VARBL													
CALM												5.1	
	4.2	33.6	28.5	25.0	2.9	.7						100.3	8.2

TOTAL NUMBER OF OBSERVATIONS 720

U. S. AIR FORCE
CLIMATE BRANCH
METEOROLOGICAL SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 77-80 JCS
STATION STATION NAME YEARS MONTH
ALL WEATHER ALL
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	2.5	3.6	.9	.4	.1					9.8	11.3
NNE	.2	1.3	1.9	1.8	.4	.1						5.6	8.9
NE	.1	1.1	1.2	1.1	.1							3.5	8.6
ENE	.1	.9	.6	.3	.1		.0					2.1	6.0
E	.1	1.0	1.2	.7	.1	.0						3.2	6.8
ESE	.2	1.2	1.1	.9	.1	.0						3.5	8.7
SE	.2	1.4	1.9	3.2	.5	.1						7.2	10.7
SSE	.0	.5	2.3	5.6	1.9	.2						15.9	13.0
S	.3	2.5	4.5	5.9	1.7	.3	.0					15.2	11.2
SSW	.2	1.1	1.6	1.2	.3	.1						5.1	9.1
SW	.2	1.2	1.3	1.0	.2	.0						4.0	9.1
WSW	.1	.9	1.7	.8	.2	.0						3.7	9.1
W	.3	1.3	2.4	1.6	.6	.2	.0					6.4	10.2
WNW	.1	1.0	1.6	2.0	1.0	.1	.0					5.9	11.5
NW	.2	.7	1.3	2.0	.7	.1						5.0	11.6
NNW	.1	1.0	1.7	2.4	.4	.1						5.6	11.1
VARBL													
CALM												3.5	
	2.6	20.0	28.8	34.1	9.0	1.9	.1					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 5760

1. ALL CLIMATOLOGY BRANCH
 2. DTAD
 3. WEATHER SERVICE/MAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 1. STATION REGION APT FARGO ND 73-80 JUL MONTH
 STATION NAME CLASS ALL WEATHER
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.6	3.0	2.8	.1							6.9	3.
NNE	.5	.7	1.5	.3			.1					3.1	6.
NE	.7	.9	.4	.7								2.7	7.
ENE	.1	.8	.7									1.6	5.
E		2.1	1.3	.3								3.6	7.
ESE	.3	2.4	1.7	.4								4.8	6.
SE	.1	2.7	3.4	2.7	.1							8.3	5.
SSE	.1	1.1	2.4	5.5	1.1							18.2	11.
S	.7	3.1	7.8	7.0	.5							17.1	9.
SSW	.7	1.7	.3									2.7	4.
SW	.4	1.2	.5									2.2	4.
WSW	.5	.4	1.3									2.3	6.
W	.4	1.7	2.0	.4								4.7	6.
WNW	.3	1.9	1.7	.8	.1		.1					5.5	3.
NW	1.3	2.0	2.4	.7								6.5	6.
NNW	.7	2.2	1.5	1.5	.4	.1						5.3	3.
VARBL													
CALM												6.9	
	7.8	27.6	32.0	23.0	2.4	.1	.3					100.0	7.

TOTAL NUMBER OF OBSERVATIONS 74

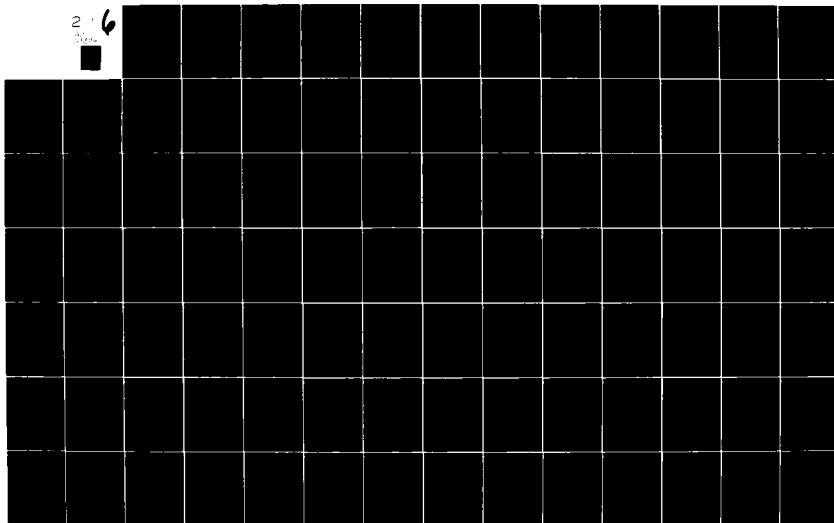
AD-A113 156 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
HECTOR APT. FARGO, NORTH DAKOTA. REVISED UNIFORM SUMMARY OF SUR--ETC(U)
JAN 82

UNCLASSIFIED USAFETAC/DS-82/001

SBI-AD-E050 137

NL

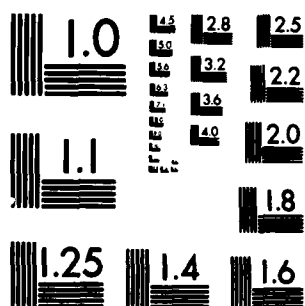
2 6
300
■



A large, stylized white number '6' is centered on a solid black background. The number is thick and has a slightly irregular, hand-drawn appearance. It features a long, curved vertical stroke on the left and a large, rounded loop on the right. A small, dark, horizontal mark is visible within the loop of the number.

D

13156



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

LOCAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1914 HECTOR APT FARGO ND 73-80 JUL
STATION MONTH
STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
0300-0500
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.0	3.5	2.3	.3							10.1	8.2
NNE	.4	1.1	.8	.5								2.8	7.2
NE	.3	.8	.7									1.7	5.9
ENE	.1	1.1	.4									1.6	5.0
E	.1	.7	.4									1.2	6.3
ESE	.1	2.2	2.7	.3								4.6	6.8
SE	.5	3.5	2.8	2.7	.1							9.7	8.2
SSE	.1	2.6	4.6	5.8	1.7							14.6	10.9
S	.4	4.8	5.5	5.0	.3							16.0	8.7
SSW	.4	2.2	.7									3.2	5.2
SW	.5	2.3	.5									3.4	5.0
WSW	.3	.7	.5	.3								1.7	6.8
W	.4	2.2	1.7	.1	.1							4.6	6.5
WNW		2.2	3.1	.1	.3							5.6	7.7
NW	.4	2.6	1.3	.3	.4							5.0	7.3
NNW	.4	2.6	2.2	1.6	.1							6.9	8.4
VARBL													
CALM												7.1	
	4.8	34.9	30.8	19.0	3.4							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 744

U.S. NAVAL CLIMATOLOGY BRANCH
 USAFETAC
 ALL WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 JUL
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 0600-0800
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.0	3.9	3.1		.1						10.8	6.5
NNE	.3	1.6	1.6	1.2								4.7	6.3
NE	.4	.8	.9	.4								2.6	7.5
ENE		.8	.7	.3								1.7	7.5
E	.1	1.3	.7	.3								2.4	6.6
ESE	.1	1.1	1.5	.3								3.0	7.1
SE	.1	2.0	2.6	2.0	.3							7.0	9.1
SSE		2.7	3.1	7.8	1.2							14.1	11.7
S	.4	3.5	7.0	6.0	.7							17.7	9.6
SSW	.3	1.7	1.3	.7								4.0	7.5
SW		1.3	1.3	.1	.1							3.0	7.5
WSW	.1	.8	.4	.4								1.7	7.2
W	.4	1.6	.9	.7	.1							3.8	7.3
WNW	.3	1.6	1.9	1.2	.1							5.1	8.1
NW	.1	1.6	2.6	1.9	.5							6.7	9.6
NNW	.1	1.2	3.0	3.0	.1							7.4	9.8
VARBL													
CALM												4.3	
	3.5	26.2	33.3	29.3	3.2	.1						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 744

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

73-80

JUL

STATION

STATION NAME

YEARS

CONTENTS

ALL WEATHER

1900-1106

CLASO

MOORE (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	5.0	4.8	.5							10.9	11.0
NNE		.8	3.4	1.3								5.5	9.1
NE	.1	.8	1.6	.4	.1							3.1	8.1
ENE	.1	1.1	.9	.5								2.7	7.6
E		1.1	.7	.7	.1							2.6	8.5
ESE	.1	.3	1.5	1.2								3.1	9.0
SE		.6	2.2	1.2	.4							4.7	10.1
SSE		1.1	2.4	5.2	1.7	.4	.1					11.0	12.6
S	.1	1.7	6.3	8.1	2.2	.1						18.5	11.7
SSW	.1	.7	2.0	1.5	.5							4.8	10.1
SW	.1	.5	1.5	.9	.3							3.4	9.7
WSW		.4	1.5	1.1	.3							3.2	10.5
W	.1	1.5	2.3	1.3	.1	.1						5.5	9.0
WNW	.1	.7	2.4	1.2	.7							5.1	10.3
NW	.1	1.2	1.2	2.6	1.2							8.3	11.6
NNW	.1	.7	2.8	3.4	2.2							9.1	12.5
VARBL													
CALM												.4	
	1.5	13.8	37.6	35.5	10.3	.7	.1					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

744

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH
 AFMTC
 AIRCRAFT SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 JUL 73-80
 HECTOR APT FARGO ND
 ALL WEATHER
 CLASS
 CONDITION
 1200-1400
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.6	3.0	5.5	.9	.1						11.4	11.2
NNE		.8	2.3	1.2	.4							4.7	9.7
NE		.7	1.7	.1								2.6	7.6
ENE		.7	1.2	.1								2.5	7.5
E	.1	1.6	1.5	.4	.1							3.8	7.7
ESE		.4	1.6	1.2	.1							3.4	9.8
SE		.7	2.2	2.6	.9							6.3	11.6
SSE		1.1	2.6	3.9	1.5	.4	.1					9.5	12.6
S		.7	3.6	6.0	3.1	.5						14.0	13.6
SSW	.1	.1	1.5	3.5	.7	.1						6.0	12.8
SW		.7	1.3	1.2	.7							3.9	11.3
WSW		.4	1.6	.4								2.4	8.7
W	.1	1.5	1.6	1.9	1.2			.1				6.5	11.9
WNW		.7	2.4	2.8	.9							6.9	11.8
NW		.5	1.6	3.9	1.7	.1						7.9	13.4
NNW		.7	1.9	4.2	1.7							8.5	12.5
VARBL													
CALM												.3	
	.7	12.3	31.6	39.0	14.1	1.3	.1	.1				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS 744

SIGNAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 HECTOR APT FARGO ND 73-80 JUL
STATION STATION NAME YEARS MONTH
1500-1700
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.6	4.2	7.5	.9	.3						14.7	11.7
NNE	.1	2.0	2.3	1.1	.1							5.6	8.4
NE	.1	1.3	1.5	.9								3.9	8.0
ENE	.3	1.3	1.9	.1								3.6	6.8
E		.7	.7	.5								1.9	8.2
ESE		.3	1.3	.9	.3							2.8	11.0
SE	.3	.7	2.4	3.2	.4							7.0	10.5
SSE	.1	.5	1.6	4.0	.8	1.1						8.2	13.3
S	.1	1.1	2.8	6.0	2.8	1.1						14.0	13.6
SSW		.4	.9	1.7	.7	.1						3.9	12.8
SW		1.1	1.7	1.2								4.0	8.8
WSW	.4	.3	1.3	1.3	.1	.1						3.6	10.4
W		.8	1.9	2.8	1.1	.3						6.9	12.4
WNW		.3	1.3	2.2	.5							4.8	11.3
NW		.5	2.0	4.0	1.2	.5						8.3	13.3
NNW		.5	1.5	3.1	.7	.3						6.0	12.6
VARBL													
CALM												.7	
	1.6	14.0	29.4	40.9	9.7	3.8						100.0	11.4

TOTAL NUMBER OF OBSERVATIONS

744

1. 14
CENTRAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1. 14 HECTOR APT FARGO ND 73-80 JUL
STATION STATION NAME YEARS MONTH
ALL WEATHER CLASS 1900-2000
CONDITION SOURCE (L.S.V.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	3.0	5.6	3.6	.7							13.0	9.5
NNE	.4	2.0	2.7	1.2	.3							6.6	8.3
NE	.1	2.4	2.3	.4								5.2	6.8
ENE		2.7	1.1	.1								3.9	6.5
E	.1	.9	2.8	.3								4.2	7.6
ESE	.1	.4	1.9	1.7	.1							4.3	9.9
SE		.8	3.5	3.4	.1							7.8	10.6
SSE		1.3	2.6	5.4	1.7	.1						11.2	12.3
S		2.0	4.8	4.0	.7							11.6	10.3
SSW	.1	1.1	1.5	.9	.1	.1						3.9	8.7
SW	.1	1.2	.9	.8	.1							3.2	8.1
WSW	.3	.8	.4	.1								1.6	6.2
W		1.1	2.4	1.1	.7	.1						5.4	10.0
WNW	.1	.9	.9	.7	.5							3.2	9.8
NW	.1	1.5	2.7	2.2	.1	.1						6.7	10.0
NNW	.1	.3	3.1	2.7	.1							6.3	10.3
VARBL													
CALM												1.9	
	1.9	22.4	39.2	28.6	5.4	.5						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION HECTOR APT FARGO ND 73-80 YEARS JUL MONTH
 2130-2300 HOURS (L.S.T.)
 ALL WEATHER CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.4	3.0	1.7								9.0	7.8
NNE	.4	2.6	1.2	1.1								5.2	7.3
NE	.1	.8	.8	.1								1.9	6.2
ENE	.3	1.7	1.1	.3								3.5	6.8
E	.1	2.0	1.5	.4		.1						9.0	7.1
ESE	.3	3.0	2.0	.9								6.2	7.5
SE	.3	2.3	3.9	3.2	.5							13.2	9.5
SSE		.3	3.1	4.7	1.6							10.3	11.9
S	.7	3.0	6.6	5.5	.7							16.4	9.7
SSW		1.2	.7	.4		.1						2.4	8.2
SW	.4	1.3	.5	.5								2.8	7.0
WSW	.1	.0	.5	.1								1.7	6.5
W	.7	3.4	1.6	1.2	.3							7.1	7.5
WNW	.4	1.7	1.7		.1							4.2	6.7
NW	.1	2.2	1.2	.3								3.6	6.5
NNW	.3	2.2	1.1	1.2	.1							4.8	8.3
VARBL													
CALM												5.4	
	5.1	33.6	30.5	21.8	3.4	.3						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 744

ALLIANCE CLIMATOLOGY BRANCH
AFETAC
ALL WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1414	HECTOR APT FARGO ND	73-80	JUL
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			ALL
CLASS			MOON (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.4	3.9	3.9	.4	.1						11.1	9.8
NNE	.3	1.4	2.0	1.0	.1		.0					4.8	8.4
NE	.2	1.1	1.2	.4	.0							3.0	7.3
ENE	.1	1.3	1.0	.2								2.6	6.8
E	.1	1.4	1.2	.4	.0	.0						3.1	7.4
ESE	.1	1.2	1.7	.9	.1							4.0	8.2
SE	.2	1.7	2.9	2.6	.4							7.7	9.7
SSE	.1	1.3	2.9	5.3	1.4	.3	.0					11.2	12.0
S	.3	2.5	5.6	6.0	1.4	.2						15.9	10.7
SSW	.2	1.1	1.1	1.1	.3	.1						3.9	9.3
SW	.2	1.2	1.1	.6	.2							3.2	8.1
WSW	.2	.6	1.0	.5	.1	.0						2.3	8.2
W	.3	1.7	1.8	1.2	.5	.1		.0				5.5	9.2
WNW	.2	1.3	1.9	1.1	.4		.0					5.1	9.3
NW	.3	1.5	1.9	2.0	.7	.1						6.4	10.3
NNW	.2	1.3	2.1	2.6	.7	.1						6.9	10.6
VARBL													
CALM												3.4	
	3.4	23.2	33.1	29.6	6.5	.9	.1	.0				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 5952

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14-14 HECTOR APT FARGO ND 73-80
STATION MONTH
ALL WEATHER
CLASS
CONDITION
AGE
0000-0200
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.4	2.3	1.5	.4							7.4	8.1
NNE	.3	2.4	.7	.3	.1							3.6	6.7
NE	.1	1.5	.4	.3								2.3	6.3
ENE	.1	2.2	.7	.1								3.1	5.9
E	.5	2.0	1.6	.4	.1							4.7	6.9
ESE	.1	1.3	1.7	.9								4.2	7.9
SE	.1	1.2	4.7	3.4	.1		.1					9.7	9.9
SSE	.4	.9	3.6	6.0	2.0	.1						13.2	12.3
S	.4	4.0	7.1	5.1	1.5							18.1	9.6
SSW		1.3	.4	.5								2.3	7.5
SW	.4	1.1	.3									1.7	5.0
WSW		.8	.4	.3	.3	.1						1.9	10.5
W	.3	1.2	3.5	.8	.1	.1						6.3	8.6
WNW	.3	1.3	1.9	.9	.1							5.1	7.6
NW		1.6	1.7	.3			.3					3.9	8.4
NNW	.1	2.6	1.6	.5	.4	.1						5.4	8.4
VARBL													
CALM												7.3	
	4.2	28.4	32.7	21.4	5.2	.5	.4					100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 744

17
FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

18614
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.G.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.0	3.2	1.5	.7							6.0	8.1
NNE	.5	1.7	1.1	.3		.1						3.8	6.8
NE	.5	1.1	.7									2.3	5.2
ENE	1.2	1.3	.4	.1								3.1	5.2
E		2.2	.7	.3								3.1	6.4
ESE		1.9	1.6	.7								4.2	7.7
SE	.1	1.1	3.5	3.1	.1							7.9	10.2
SSE		.9	3.9	7.1	.4	.1						12.5	11.5
S	.3	4.3	6.7	4.7	.4							16.4	9.2
SSW	.4	2.0	.7									3.1	5.4
SW	.1	1.2	.7	.3	.1	.1						2.6	8.4
WSW	.3	1.2	.8	.7								3.0	7.6
W	.3	1.7	4.0	.4	.3	.1						6.9	8.2
WNW	.5	1.9	1.6	.7								4.7	7.0
NW	.5	1.5	.9	.3								3.2	6.3
NNW	.5	3.2	1.3	.7		.1						5.9	6.9
VARBL													
CALM												8.5	
	6.0	30.2	31.9	20.7	2.0	.7						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

744

NATIONAL CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION HECTOR APT FARGO ND 73-80 YEARS AUG NORTH
 ALL WEATHER
 CLIM
 CONDITION
 3600-0800 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.2	4.6	1.5	.4							9.1	8.7
NNE	.4	1.2	.9	.4	.1							3.1	7.6
NE		.9	1.3	.1								2.4	7.1
ENE		1.9	.8	.5								3.2	7.2
E	.4	1.7	1.7	.8								4.7	7.4
ESE	.1	1.9	1.7	.7	.1							4.6	7.6
SE	.3	.8	3.8	3.1								7.9	9.9
SSE	.1	1.1	4.0	8.1	1.1	.1	.1					14.7	12.0
S	.3	3.4	6.5	3.9	.4	.1						14.5	9.2
SSW	.3	.8	.8	.4	.4							2.7	8.7
SW	.1	.5	.7	.3								1.6	8.1
WSW	.5	1.6	.7	.8								3.6	7.1
W	.5	1.6	2.6	1.7	.4							6.9	9.1
WNW		1.5	1.5	1.7	.1							4.8	9.3
NW	.1	2.0	3.0	.9	.3							6.3	8.1
NNW	.5	.8	1.3	.8	.1							3.6	8.3
VARBL													
CALM												6.2	
	4.0	23.9	36.2	25.8	3.5	.3	.1					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION FECTOR APT FARGO ND 73-80 YEARS AUG NORTH
 1980-1100 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	3.9	3.0	.9	.3						2.5	10.7
NNE	.1	.7	1.3	1.5	.1							3.8	9.9
NE	.7	.7	1.1	.3								2.3	7.4
ENE		1.7	1.6	.4								3.8	7.3
E		1.5	1.6	.7	.1							3.9	8.1
ESE	.1	.9	1.3	1.3								3.8	8.6
SE	.7	1.9	2.2	3.6	.1	.1						6.2	10.2
SSE		.9	2.7	6.6	1.9	.5						12.5	13.3
S	.1	1.7	3.4	8.3	.8	.3						14.7	11.9
SSW	.1	.4	2.0	1.1								3.6	8.8
SW	.3	.3	.4	1.3	.7							3.0	11.7
WSW	.3	.7	1.5	.8	.3							3.5	9.5
W		1.6	2.0	2.2	1.3	.3						7.4	11.4
WNW		.7	1.2	2.2	.8	.1						5.0	12.7
NW	.1	.9	2.6	3.0	.3							6.9	10.5
NNW	.1	.9	2.7	2.3	.3							6.2	10.1
VARBL													
CALM												1.2	
	2.0	16.9	31.5	38.4	7.7	1.6						170.2	10.7

TOTAL NUMBER OF OBSERVATIONS 740

1. LOCAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1. 14. FORTOR APT FARGO ND 73-80
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
AUG
MONTH
1270-1400
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	3.1	3.8	.7	.4						9.3	11.3
NNE		.5	2.2	.9	.1							4.5	9.4
NE	.1	.4	2.2	.4								3.1	8.4
ENE		.5	1.2	.8	.1							3.1	6.9
E	.1	1.2	1.9	.9	.3							4.4	8.8
ESE		.7	1.3	1.5								3.8	9.7
SE		.7	2.2	3.9	.8							7.5	11.6
SSE		.5	2.6	4.2	1.7	.5						9.5	13.3
S		1.3	3.4	6.5	3.1	.7						14.9	13.3
SSW	.5	.5	.7	1.5	.7							3.9	11.3
SW		.7	.7	1.1	.5							3.0	11.6
WSW		.5	1.7	.9	.3							3.8	10.0
W	.1	.5	2.0	2.8	.7	.8						7.0	12.7
WNW	.3	.5	1.6	3.8	.7	.5						7.7	12.4
NW		.5	1.7	3.2	1.6							7.1	12.5
NNW	.1	.8	1.9	4.0	.4							7.3	11.3
VARBL													
CALM												.7	
	1.3	12.0	30.2	40.2	11.7	3.0						100.0	11.6

TOTAL NUMBER OF OBSERVATIONS 744

METEOROLOGICAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION NO. VECTOR APT FARGO ND 73-80 YEARS
 ALL WEATHER CLASS
 CONDITION
 ACC. MONTHS 1500-1700 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	3.6	3.9	.8							9.7	10.9
NNE		.3	2.3	2.2	.1							4.5	10.6
NE		.7	1.7	.7								3.4	8.3
ENE	.3	.9	.5	.5								2.3	8.9
E	.1	1.3	1.6	1.2	.4							4.7	9.5
ESE	.7	.9	1.2	.9								3.4	8.3
SE		.9	2.4	3.8	.7							7.8	11.6
SSE	.1	.8	2.2	4.4	2.4	.1						10.1	13.1
S		1.1	2.2	6.6	2.3	.9	.1					13.2	13.4
SSW		.7	.5	.7	.5	.3						2.3	13.2
SW		.5	1.5	.7	.4	.1						3.2	10.9
WSW	.1	.7	1.1	1.6	.4							3.9	10.8
W	.1	.1	2.4	3.1	.7	.7						7.1	12.3
WNW		.5	3.5	3.0	.8	.3						8.3	11.4
NW	.1	1.2	1.3	3.1	.8	.4						7.0	11.9
NNW		.8	1.9	4.0	.7	.5						7.9	12.5
VARBL													
CALM												.9	
	1.3	12.2	30.0	40.3	11.0	3.4	.1					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14	HECTOP APT FARGO ND	73-80	AUG
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			1980-2000
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.0	4.0	3.1	1.1							11.4	9.6
NNE	.4	2.0	4.2	1.2	.1							7.7	6.3
NE	.4	2.2	1.7	.8								5.1	7.7
ENE	.1	1.1	1.1	.5								2.8	7.7
E	.3	2.7	2.0	1.5	.3							6.7	6.4
ESE	.5	2.0	1.6	1.1								5.2	7.8
SE		1.3	3.2	4.6	.5							9.7	11.1
SSE	.1	1.1	2.0	5.2	2.2	.1						10.5	12.3
S	.5	2.0	3.6	4.3	.9	.3						11.7	10.3
SSW	.3	.4	.7	.5	.3							2.2	9.6
SW	.1	1.3	.8		.3							2.6	7.5
WSW	.1	.5	1.7	.5	.3							3.2	9.4
W	.3	.9	.9	.9	.4	.4						3.9	10.9
WNW		1.1	1.9	.9								3.9	8.7
NW		1.3	2.8	1.6	.7	.1						6.6	10.1
NNW	.5	.5	1.9	1.6	.4	.1						5.1	10.2
VARBL													
CALM												1.9	
	4.2	22.7	34.3	28.5	7.4	1.1						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 73-80
STATION STATION NAME YEARS
ALL WEATHER
CLAS
CONDITION
AUG
MONTHS
2100-2300
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	2.2	1.7	.5							6.3	9.1
NNE	.5	2.6	1.9	.8	.1							6.2	7.1
NE	.4	2.7	1.6	.1			.1					5.0	6.7
ENE	1.1	2.4	1.5		.3							5.2	6.0
E	.5	1.9	3.6	.8	.1	.1						7.1	8.0
ESE	.7	.7	1.5	.8								3.6	7.6
SE	.3	1.7	3.6	3.6	.8	.1						10.2	10.3
SSE	.1	.3	3.6	7.4	2.7	.4						14.5	13.3
S	.1	4.3	4.4	4.2	.7	.1						13.8	9.5
SSW	.1	.8	.8	.3								2.0	6.7
SW		.7	.4	.3		.1						1.5	9.2
WSW	.1	1.1	.9	.1		.3						2.6	8.4
W	.4	1.5	2.6		.4							4.2	7.8
WNW	.1	2.0	1.1	.1	.1							3.5	7.2
NW		1.6	2.0	.5	.1							4.3	8.3
NNW	.3	.9	1.5	.9	.1							3.8	8.8
VARBL													
CALM												5.5	
	5.6	26.5	33.2	21.8	6.0	1.2	.1					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 744

FEDERAL CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 73-80 AUG
STATION MONTH
STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.1	3.4	2.5	.7	.1						9.0	9.7
NNE	.3	1.5	1.8	.9	.1	.0						4.7	8.3
NE	.2	1.3	1.3	.3			.0					3.2	7.1
ENE	.4	1.6	1.0	.4	.1							3.3	6.0
E	.3	1.7	1.8	.8	.2	.0						4.6	8.0
ESE	.2	1.3	1.5	1.0	.0							4.1	6.1
SE	.1	1.2	3.2	3.6	.4	.0	.0					8.5	10.6
SSE	.1	.8	3.1	6.1	1.8	.3	.0					12.2	12.7
S	.2	2.8	4.7	5.4	1.3	.3	.0					14.7	10.8
SSW	.2	.5	.8	.6	.2	.0						2.8	9.0
SW	.1	.0	.7	.5	.3	.1						2.4	9.4
WSW	.2	.4	1.1	.7	.2	.1						3.2	9.1
W	.7	1.2	2.5	1.5	.5	.3						6.2	10.2
WNW	.7	1.3	1.8	1.7	.3	.1						5.4	10.0
NW	.1	1.3	2.0	1.6	.5	.1	.0					5.7	9.9
NNW	.3	1.3	1.8	1.9	.3	.1						5.6	9.9
VARBL													
CALM												4.1	
	3.6	21.9	32.5	29.6	6.8	1.5	.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 5952

U.S. AIR FORCE
CLIMATE BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 73-80 SEP
STATION MONTH YEAR
ALL WEATHER
CLASS
CONDITION
8000-0200
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.8	3.9	3.1	.8	.1						10.0	10.3
NNE		1.4	.6	.6								2.5	7.4
NE		.7	.8	.7								3.2	8.7
ENE	.1	1.4	.7									2.2	5.6
E	.4	.4	.8	.6		.1						2.4	8.9
ESE	.1	2.1	1.2	.7	.1							4.3	7.8
SE	.1	1.2	2.2	1.5								5.1	8.9
SSE	.1	1.5	4.2	6.2	.8	.1						13.1	11.3
S	.7	3.1	8.5	5.1	.6							17.9	9.2
SSW	.1	2.4	2.6									5.1	6.8
SW	.1	1.9	1.1									3.2	6.0
WSW	.1	1.7	1.8	.6	.1							4.3	7.8
W	.6	2.5	2.8	.6	.3	.1						6.5	7.8
WNW		2.1	1.7	.8		.1						5.0	8.5
NW	.1	1.5	1.1	1.1	.3							4.2	8.9
NNW	.7	.3	1.4	1.7	.6							4.2	11.0
VARBL													
CALM												7.5	
	3.3	26.0	35.7	23.2	3.6	.7						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14 HECTOR APT FARGO ND STATION NAME 73-8L YEARS SEP MONTH 1300-0500 HOURS (L.S.T.)

CLASS ALL WEATHER

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.3	2.2	3.5	2.0	.4	.1						9.4	9.5
NNE	.4	.1	.8	.4								1.8	7.8
NE	.4	.3	.8	.3								1.8	7.1
ENE	.3	1.1	.7	.1								2.2	8.3
E	.1	1.4	.8	.3								2.6	6.6
ESE	.1	1.0	1.2	1.1								3.5	8.5
SE	.3	1.2	1.8	1.2	.3							5.4	8.7
SSE	.1	.9	4.4	3.3	1.5							15.3	12.1
S	.4	5.8	6.1	3.2	.1							16.1	7.9
SSW	.4	2.6	2.1	.6								5.7	6.7
SW	.4	1.5	1.5	.7								4.2	6.9
WSW	.3	.6	1.8	.7	.1							3.5	8.7
W	.1	1.4	3.2	.8	.1	.1						6.2	6.4
WNW	.3	2.1	1.5	1.1		.3						5.3	8.6
NW	.3	2.1	1.5	.7								4.5	7.2
NNW	.4	1.2	1.4	2.2	.8							6.1	10.6
VARB													
CALM												6.2	
	5.1	26.5	33.3	24.7	3.5	.6						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 720

1. J. CLIMATOLOGY BRANCH
 2. USAFETAC
 3. WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1. 14 STATION MCOTOP APT FARGO ND STATION NAME 73-80 YEARS SLP
ALL WEATHER 0600-1800
 CLASS NOON (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.2	3.2	4.7	1.4							11.9	10.6
NNE	.1	.3	.7	.4								2.1	7.6
NE		.3	.7	.7								1.7	9.8
ENE	.4	1.2	1.5									3.2	6.6
E	.3	1.2	.4									1.9	5.2
ESE	.1	1.5	1.2	.8								3.7	7.6
SE	.1	1.2	3.1	2.2		.1						6.8	9.3
SSE		2.1	4.0	7.8	1.4	.1						15.4	11.6
S	.7	5.4	6.9	3.2	.6							16.3	9.2
SSW	.1	1.5	2.1	.8								4.0	8.1
SW	.1	.9	1.5	1.4								3.9	9.1
WSW	.1	1.1	1.2	1.0	.1							3.6	9.0
W	.1	1.3	1.9	1.4								5.3	8.6
WNW	.1	1.1	1.9	1.5	.3	.3						5.3	10.8
NW	.3	.7	2.4	1.4		.1						4.9	9.5
NNW		.4	1.8	2.1	.4							5.1	10.5
VARBL													
CALM												4.3	
	3.2	23.5	34.7	29.4	4.2	.7						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 720

1. AL CLIMATOLOGY BRANCH
USAFETAC
FATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 SEP
STATION MONTH
STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.7	2.9	6.8	1.8	.3						13.7	12.2
NNE	.1	.8	.7	1.4	.6	.1						3.7	11.2
NE		.1	1.1	.1								1.4	5.3
ENE	.3	.6	1.1	.7								2.6	8.3
E	.1	.1	.7	.6	.1							1.7	10.3
ESE		.8	.7	.4	.1							2.1	8.2
SE	.3	.8	2.8	2.5	.3							5.7	10.5
SSE	.3	1.1	3.7	4.7	1.0	.3						11.1	11.5
S	.4	1.9	5.1	9.2	2.2	.1						19.0	11.7
SSW		.3	1.9	3.3								5.6	11.2
SW	.1	1.2	1.2	1.0	.1	.3						4.0	10.2
WSW	.1	.7	1.2	.3	.6	.4						3.3	11.7
W		.8	1.9	1.2	.6	.3						4.9	11.5
WNW		.8	1.8	1.9	1.2	1.0	.1					6.9	13.9
NW		1.0	1.5	2.4	.3		.1					5.3	11.3
NNW		.7	2.1	3.1	.7							6.5	11.6
VARBL													
CALM												1.4	
	2.1	13.6	30.7	39.6	9.6	2.8	.3					100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 AIRCRAFT SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 14 HECTOR APT FARGO ND 73-80 SEP
 STATION MONTH
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 CONDITION
 1200-1400
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.2	1.4	6.8	1.8	.4						11.7	13.3
NNE	.1	.3	1.0	.8	.1							2.4	9.9
NE		.2	.8	.6								2.2	8.4
ENE	.1	.3	.6	.6	.1							1.7	9.2
E	.1	.6	.8	1.0								2.5	9.1
ESE		.4	2.2	.6	.3							3.5	10.3
SE		.6	1.4	2.4	.3							4.9	10.7
SSE			2.4	3.5	1.5	1.5						8.9	14.7
S	.3	.6	3.7	3.3	2.5	1.0	.1					16.5	13.6
SSW	.1	.7	1.0	1.8	1.0							4.6	12.2
SW		.4	2.2	2.5	.3	.1						5.6	11.1
WSW		.7	1.7	1.1	.3							5.7	10.4
W	.2	.7	2.2	1.9	1.8	.3						7.2	12.5
WNW	.1	1.1	2.1	3.1	2.2	.8						9.4	13.6
NW		.1	1.8	2.5	.3	.6	.1					5.4	13.2
NNW		1.0	1.9	4.9	1.1	.1						9.0	12.4
VARBL													
CALM												.8	
	1.2	9.7	27.2	42.2	13.6	4.9	.3					100.0	12.3

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR CLIMATOLOGY BRANCH
 AFMPC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1914 STATION HECTOR APT FARGO ND 73-80 SEP
 STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 1500-1700
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.5	4.6	5.8	2.6	.3						14.9	12.2
NNE		.5	1.8	1.2	.1							3.7	9.9
NE	.1	.6	1.0	.1		.1						1.9	5.4
ENE		.4	.0		.1							1.4	8.5
E	.1	.4	1.2	.7	.3							2.8	9.9
ESE	.1	1.1	1.8	.6	.1							3.7	8.3
SE	.3	.7	1.9	1.9	.3							5.1	10.2
SSE		.3	1.8	3.2	1.0	.3						6.5	13.0
S	.4	1.5	3.2	6.9	2.5	1.0	.4					16.0	13.3
SSW		.7	1.2	2.6	.8	.1						3.6	12.5
SW	.3	.3	1.2	1.9	1.0	.1						5.4	11.7
WSW	.1	.6	1.2	1.1	.1							3.2	9.6
W		.4	2.1	2.5	.1	.4						5.6	12.1
WNW		.4	2.1	2.4	1.7	.4						6.9	13.6
NW	.1	.6	2.5	3.5	1.1	1.2						9.0	13.6
NNW		.3	1.0	3.7	1.9	.4						7.4	14.5
VARBL													
CALM												.8	
	1.7	10.8	29.6	38.3	13.9	4.4	.4					100.0	12.1

TOTAL NUMBER OF OBSERVATIONS 727

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1-14 HECTOR APT FARGO ND 73-80 SEP
STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1870-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.0	4.7	4.0	1.4	.1						14.3	9.9
NNE	.7	1.9	2.5	1.1	.1							6.4	7.7
NE		2.2	.7	.4								3.3	6.7
ENE	.1	1.7	.8	.3	.1	.3						3.3	6.7
E	.3	1.1	1.4	.6	.1							3.5	8.3
ESE	.4	1.7	1.8	1.1	.3							5.3	8.3
SE	.1	2.2	4.4	1.8								6.6	8.5
SSE	.1	1.2	3.5	1.9	.4	.1						7.4	9.9
S	.3	3.2	5.4	4.4	.8	.1						14.3	9.6
SSW	.3	1.7	1.4	1.2								4.6	8.2
SW	.1	.4	.6	.1	.3							1.5	9.2
WSW		1.2	.7		.3							2.2	7.3
W	.3	2.5	2.1	.8	.1							5.6	7.4
WNW	.1	1.2	1.9	1.4	.3		.3					5.3	10.5
NW		1.1	2.6	2.9	.7	.4						7.8	11.5
NNW		.6	1.0	1.8	.8							4.2	12.3
VARBL													
CALM												2.2	
	4.2	26.8	35.6	24.0	5.8	1.1	.3					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 720

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1914 HECTOR APT FARGO ND 73-80 SEP
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1100-2300
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	3.1	4.4	3.7	.6	.1						12.4	9.4
NNE		2.2	.7	.8								3.7	7.4
NE	.1	.3	1.1	.6								2.6	8.1
ENE	.1	1.4	1.4	.3								3.2	7.7
E	.1	2.2	1.2	.4	.1	.1						4.3	7.6
ESE		1.0	1.4	.6	.1							3.1	8.7
SE		2.6	3.9	3.2	.3	.1						10.1	10.1
SSE	.3	1.2	3.2	4.4	.4	.1						9.7	10.5
S	.4	2.6	6.1	4.7	.7	.1						15.1	9.6
SSW	.6	1.5	2.2	.4								4.7	8.6
SW	.4	1.9	.6	.1		.4						3.5	7.6
WSW	.3	1.3	1.2	.1								2.6	6.7
W	.4	2.5	2.2	.7								5.6	7.7
WNW	.3	1.1	1.9	.3	.3	.3						4.2	8.9
NW		1.8	1.7	1.0	.4	.3						4.4	10.3
NNW		.7	1.0	2.5	1.1	.1						5.6	12.5
VARBL													
CALM												4.9	
	3.9	27.9	33.6	23.9	4.0	1.8						170.0	8.7

TOTAL NUMBER OF OBSERVATIONS 724

U.S. AIR FORCE
 U.S. AIR FORCE
 U.S. AIR FORCE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION APT FARGO ND 73-80 SEP
 STATION NAME YEARS MONTH
 ALL WEATHER CLASS ALL
 CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.1	3.6	4.7	1.4	.2						13.3	11.0
NNE	.2	1.1	1.1	.9	.1	.0						3.3	5.5
NE	.1	.7	.9	.4		.0						2.2	3.0
ENE	.0	1.0	1.0	.2	.1	.0						2.5	7.4
E	.2	.9	.9	.5	.1	.0						2.7	8.2
ESE	.1	1.2	1.5	.7	.1							3.6	8.4
SE	.2	1.4	2.7	2.1	.2	.0						6.6	9.6
SSE	.1	1.1	3.4	5.0	1.0	.3						10.9	11.9
S	.6	1.0	5.6	5.6	1.2	.3	.1					15.5	13.4
SSW	.2	1.4	1.8	1.4	.2	.0						5.0	9.0
SW	.2	1.1	1.2	1.0	.2	.1						2.9	9.3
WSW	.1	.9	1.4	.6	.2	.1						3.3	9.8
W	.2	1.6	2.3	1.2	.4	.2						6.7	9.4
WNW	.1	1.2	1.9	1.6	.7	.4	.1					6.0	11.5
NW	.1	1.1	1.8	1.9	.4	.3	.0					5.7	11.1
NNW	.1	.7	1.4	2.7	.9	.1						6.0	12.1
VARBL													
CALM												3.5	
	3.1	20.6	32.6	30.7	7.3	2.1	.2					100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 5760

U.S. AIR FORCE
 WEATHER SERVICE
 14

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14 SECTOR APT FARGO ND STATION NAME 73-80 YEARS OCT MONTH 1000-0201 HOURS (L.S.T.)
 CLASS ALL WEATHER
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.2	1.6	4.4	1.5	.3	.3					1.1	12.1
NNE	.3	.5	.7	.7								2.2	5.6
NE		1.1	.7	.5								2.3	7.8
ENE	.1	1.3	1.1	.3								2.8	6.9
E	.3	.5	1.5	.1								2.4	6.5
ESE	.2	.4	.8									1.9	5.1
SE	.1	1.7	1.2	.4		.4						3.9	8.9
SSE	.1	1.5	1.9	5.8	2.8	.4						12.5	13.3
S	.7	4.6	6.3	5.8	.5	.3						17.7	9.5
SSW	.4	1.8	1.5	.3								4.3	6.4
SW	.1	2.6	1.5	.7								4.9	7.2
WSW		1.3	1.9	.4	.3							3.9	8.4
W	.5	1.6	7.2	1.1								6.5	7.9
WNW	.7	1.3	3.0	1.3	.4	.1	.1					6.6	10.0
NW	.4	2.7	2.8	2.3	.8		.1					8.5	9.9
NNW	.1	1.1	1.3	1.3	1.3	.3						5.5	11.0
VARBL													
CALM												4.6	
	4.0	25.1	30.9	25.4	7.7	1.7	.5					100.2	9.3

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
 AIR FORCE
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1114 HICKORY APT FARGO ND 73-80 OCT
 STATION MONTH
 ALL WEATHER
 CLASS
 CONDITION
 0300-0500
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.1	2.0	4.6	.8	.7						9.8	12.1
NNE	.1	.5	.7	.7								2.3	5.2
NE	.1	1.2	.8	.1								2.3	6.5
ENE	.1	1.1	.8			.1						2.2	7.3
E	.7	.7	.7	.4								2.0	7.5
ESE	.1	.6	.6	.4								2.2	7.1
SE	.1	1.2	1.2	.8	.7							4.0	9.3
SSE	.1	1.2	4.2	5.2	2.2	.7						13.6	12.4
S	.4	4.0	5.6	4.6	.9	.1						15.7	9.4
SSW	.4	1.3	2.2									3.9	6.0
SW	.3	1.0	1.5	.8								4.4	7.5
WSW	.7	1.3	1.5	.5	.5	.1						4.3	9.1
W	.1	3.0	3.5	1.3								6.5	7.6
WNW	.4	1.1	2.3	1.9	.3							5.9	9.0
NW	.7	1.7	2.7	2.4	.5		.3					7.9	10.2
NNW	.1	1.2	1.2	1.6	1.1	.5	.1					5.9	12.6
VARBL													
CALM												5.4	
	7.3	24.2	31.6	25.4	7.0	2.3	.4					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR CLIMATOLOGY BRANCH
AFSTAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1014 WECTOR APT FARGO ND 73-80 OCT 1974
STATION NAME STATION YEARS MONTH
ALL WEATHER
CLASS
CONDITION
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.1	1.9	3.8	.8	.7						9.5	11.5
NNE	.4	1.3	1.3	.5	.1							3.5	7.5
NE	.1	.7	1.6	.4								2.8	8.1
ENE	.3	.7	.1	.1								1.3	5.4
E	.1	.7	.1	.3								1.2	6.7
ESE		.5	.9	.4								1.9	8.4
SE		.1	1.7	.6	.5	.1						4.2	10.6
SSE	.1	1.3	4.0	5.8	2.3	.3						13.8	12.3
S	.7	3.9	6.3	6.0	.7	.1						17.7	9.6
SSW		.3	.9	.5								2.3	8.0
SW	.3	1.5	1.1	.1	.1							3.1	6.7
WSW	.6	2.2	.9	1.2	.7							5.5	8.9
W	.4	2.3	2.0	2.0	.3	.1	.1					7.3	9.4
WNW	.4	2.2	2.8	1.7	.4							7.5	9.0
NW	.1	1.1	2.6	1.5	.4	.1						5.8	10.0
NNW		.5	1.5	2.2	1.5	.7	.3					6.6	14.8
VARB													
CALM												5.6	
	3.9	22.6	30.0	27.6	7.8	2.2	.4					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
 CLIMATE DIVISION
 METEOROLOGICAL SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

15 14 HECTOR APT FARGO ND 73-80 OCT

STATION STATION NAME YEAR MONTH

ALL WEATHER

CLASS

CONDITION

0900-1100

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	%	MEAN WIND SPEED
N	.1	.7	4.5	4.2	2.6	1.2						10.8	13.7
NNE		.5	1.2	1.2								3.5	10.3
NE	.1	.7	.9	.5								2.3	8.4
ENE		.4	.9	.3								1.6	8.7
E	.3	1.2	.8	.4								2.7	7.4
ESE		1.1	1.2	.5								2.8	8.3
SE		.9	1.2	.9	.3							3.2	10.0
SSE	.1	.3	1.1	4.6	1.9	1.2						9.1	15.2
S	.3	1.7	5.1	9.9	3.5	.1						25.7	12.6
SSW	.1	.5	1.1	1.5	.5	.1						3.9	11.9
SW	.1	.7	.8	.5	.1							2.6	8.5
WSW	.3	.4	.5	.9	.4							2.6	10.9
W	.4	1.2	2.4	1.7	.7	.1						6.6	10.1
WNW	.3	.9	1.7	3.1	1.6	.7	.1					8.5	13.4
NW	.3	.5	1.9	2.2	1.3	2.0						8.2	15.3
NNW	.1	.3	1.3	3.6	1.5	.4	.1					7.4	13.8
VARBL													
CALM												2.2	
	2.6	12.2	26.3	36.2	14.4	5.9	.3					100.0	12.1

TOTAL NUMBER OF OBSERVATIONS 744

LOCAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 VECTOR APT FARGO ND 73-80 OCT
STATION STATION NAME YEARS MONTH
ALL WEATHER 1980-1981
CLASS HOUR (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.3	2.0	6.2	2.8	.8						12.1	14.6
NNE		.3	.7	2.3	.1							3.9	11.2
NE		.7	1.9	.8	.1							3.5	9.5
ENE		.7	.8	.3								1.7	7.8
E		.9	.5	.7	.1							2.3	8.1
ESE		.7	.4	.1								1.2	6.7
SE	.1	.7	.7	.9	.1	.1	.1					3.3	11.2
SSE	.1	.3	.9	3.8	1.9	.5	.1					7.9	15.1
S	.1	.5	3.2	6.0	4.4	.5						17.9	14.0
SSW		.5	1.1	1.9	1.6	.3						5.4	13.9
SW		.7	.7	.9	.8							5.1	12.0
WSW		.9	.8	1.9	.3							3.9	11.3
W	.1	.4	2.0	1.7	1.7	.3						6.3	12.9
WNW		.9	1.9	2.4	2.4	.8						6.5	13.9
NW	.3	.3	1.7	3.5	1.5	1.6	.1					9.0	15.4
NNW		1.5	1.7	2.6	1.6	1.9						9.3	14.5
VARBL													
CALM												1.2	
	.2	10.8	21.1	39.0	19.6	7.1	.4					100.0	13.1

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1014 HECTOR APT FARGO ND 73-80 OCT
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1900-1700
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.0	3.8	6.6	2.3	.1	.4					14.2	13.1
NNE		1.1	1.1	1.1	.1							3.4	9.3
NE		.1	1.3	1.5	.1							3.1	10.9
ENE		.4	.5	1.2								2.2	10.2
E		.2	.7	.8	.4							2.6	10.7
ESE	.1	.2	.7									1.7	6.2
SE	.3	.5	.9	.9	.7							3.4	11.0
SSE		.9	1.5	2.6	2.2	.8						7.9	14.3
S	.1	.9	3.6	4.3	3.5	.5						13.0	13.4
SSW		.4	1.3	2.3	1.5	.3						5.8	13.2
SW	.3	1.7	1.5	2.4	.3							5.2	9.5
WSW	.1	.5	1.5	1.3	.3							3.6	10.6
W	.1	.5	.9	1.6	.8	.1	.1					4.6	12.4
WNW	.1	.5	.8	2.3	1.7	.8	.1	.1				6.6	15.6
NW		.7	2.2	4.3	1.5	.8						9.4	13.3
NNW		.2	1.7	3.8	2.8	.8						10.1	14.3
VARBL													
CALM												1.9	
	1.5	12.4	24.1	37.0	18.1	4.3	.7	.1				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 744

CENTRAL CLIMATOLOGY BRANCH
AFSTAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 1. RECTOR APT FARGO ND 73-80 OCT
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
1900-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.0	3.8	4.2	1.1	.4	.3	.1				13.1	11.7
NNE	.7	1.7	2.0	.9	.1							3.5	8.3
NE	.3	2.4	1.1	.8								4.6	7.0
ENE	.3	1.1	.8		.1							2.3	6.5
E	.1	1.5	.8	.3	.1							2.8	7.1
ESE	.1	1.7	1.1	.5	.1							3.6	7.8
SE	.1	1.7	3.5	1.2	.1							6.7	8.2
SSE		1.2	1.5	2.7	2.4	.5						8.3	13.3
S	.7	2.2	6.1	5.9	1.3	.3						16.4	10.6
SSW	.4	.5	1.9	.3	.3							3.4	8.2
SW		1.1	1.5	.1	.1							3.0	8.2
WSW		.9	.9	.1	.1							2.2	7.9
W	.4	1.7	2.0	1.3								5.5	8.4
WNW	.1	.4	2.6	2.0	.3	.3	.1					5.6	11.2
NW	.1	.5	3.1	1.6	.7	.4						6.7	11.0
NNW	.3	.5	2.0	2.6	.9	.1	.1					6.6	12.1
VARBL													
CALM												4.4	
	3.9	21.7	34.7	24.6	7.9	2.0	.5	.1				100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 743

CLIMATE CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1 14 STATION NAME FULTON APT FARGO ND YEARS 73-80 MONTH OCT
 CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0	2.8	4.0	1.1	.4	.3					11.4	11.4
NNE	.3	.7	1.3	1.1	.3							5.6	9.1
NE	.7	1.5	.5	.4								2.7	8.9
ENE		1.5	.9	.3								2.8	6.8
E	.1	1.2	.9	.1								2.4	6.7
ESE		1.3	1.3	.4								3.1	7.3
SE	.1	1.9	1.5	2.0	.4	.1						6.2	9.6
SSE	.5	.9	2.4	5.6	2.2	.4						12.1	12.6
S	.1	3.1	7.3	5.1	1.3	.1						17.1	13.2
SSW	.6	1.7	2.2	1.2								5.6	8.8
SW	.1	1.2	1.3	.3								3.0	6.8
WSW		.7	1.2	.8								2.3	9.5
W	.1	2.0	2.7	1.6	.4			.1				7.0	9.6
WNW	.3	.9	1.3	1.2	.1	.1	.3					4.3	10.7
NW	.7	.3	1.9	1.6	1.1	.1						5.2	12.1
NNW	.3	1.5	2.7	2.3	.5	.3	.3					7.8	10.9
VARBL													
CALM												3.5	
	3.1	23.0	32.4	29.1	7.4	1.6	.8	.1				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
 METAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 OCT
 STATION STATION NAME YEARS MONTH
 ALL WEATHER ALL
 CLASS HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.4	2.7	4.7	1.6	.6	.2	.0				11.5	12.6
NNE	.2	.9	1.1	1.1	.1							3.4	9.0
NE	.1	1.0	1.1	.6	.0							2.9	8.2
ENE	.1	.9	.8	.3	.0	.0						2.1	7.4
E	.5	1.3	.8	.4	.1							2.3	7.6
ESE	.1	1.0	.9	.3	.0							2.3	7.4
SE	.1	1.2	1.5	1.0	.4	.1	.0					4.3	9.7
SSE	.2	1.1	2.2	4.5	2.2	.6	.0					10.7	13.3
S	.3	2.6	5.4	6.3	2.1	.3						17.0	11.2
SSW	.2	1.0	1.5	1.0	.5	.1						4.3	9.9
SW	.2	1.4	1.2	.7	.2							3.9	8.3
WSW	.5	1.0	1.2	.9	.3	.1						3.5	9.6
W	.3	1.7	2.4	1.6	.5	.1	.0	.0				6.5	9.6
WNW	.2	1.1	2.1	2.0	.9	.4	.1	.0				6.7	11.8
NW	.2	.9	2.4	2.4	1.0	.6	.1					7.6	12.3
NNW	.1	.9	1.7	2.5	1.4	.6	.1					7.4	13.2
VARBL													
CALM												3.5	
	2.7	19.1	28.9	30.4	11.2	3.4	.5	.1				100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 5951

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION 140000 APT FARGO ND 73-80 YEARS NOV 1999-2000 MONTHS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.2	2.9	4.9	1.8	.7	.1					10.9	11.4
NNE	.1	1.2	.8	.4	.6	.1						3.3	9.6
NE	.1	.2	.6	.4								1.9	7.9
ENE	.1	1.1	.3	.4								1.9	7.1
E	.1	1.3	.3	.1	.1							2.5	6.2
ESE	.1	.6	.8	.4								1.9	7.5
SE	.1	.3	1.0	.8								2.2	9.7
SSE	.4	.7	2.5	4.9	1.2	.3						10.0	11.7
S	.7	3.2	7.9	5.7	.3	.1						17.5	9.6
SSW	.1	3.3	2.1	.3								5.8	6.2
SW	.3	1.5	1.9									4.0	6.6
WSW	.1	.2	1.2	.4								2.6	7.5
W	.1	2.5	1.5	2.1	.3							6.5	9.1
WNW		.7	1.2	1.9	.6	.3	.3					5.0	13.4
NW	.6	1.2	2.8	2.2	1.7							7.8	10.1
NNW		1.1	1.5	2.4	1.1	.7	.4					7.2	13.8
VARBL													
CALM												5.7	
	3.1	24.4	29.4	27.4	6.9	2.2	.8					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE CLIMATOLOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HORTON APT FARGO ND 73-80 NOV
 STATION STATION NAME YEARS MONTHS
 ALL WEATHER
 CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.5	3.2	5.3	1.7	.4	.4					13.7	12.0
NNE	.3	.4	1.7	.7	.4	.1						3.6	10.3
NE	.4	1.9	.6									1.9	5.0
ENE		1.2	.8	.1	.1							2.4	7.6
E	.1	.7	.1	.6								1.5	8.4
ESE		.9	.4	.1								1.4	6.8
SE	.3	1.7	1.0	.6	.1							2.9	7.0
SSE	.1	1.2	2.2	4.6	1.2	.3						9.7	11.9
S	.3	3.3	8.2	6.8		.1						18.7	9.5
SSW	.4	2.2	2.4	.3								5.3	6.9
SW	.3	.8	1.0									2.1	6.6
WSW	.3	1.2	1.8	.3								3.6	7.1
W	.7	2.2	2.9	2.8	.3							8.9	9.0
WNW	.1	.7	1.8	2.2	.4							5.3	10.6
NW	.1	1.1	2.1	1.5	1.0	1.0						6.8	12.5
NNW		.7	1.9	2.1	.7	.4						5.8	12.3
VARBL													
CALM												6.1	
	3.9	21.2	32.1	27.9	6.0	2.4	.4					170.0	9.4

TOTAL NUMBER OF OBSERVATIONS 720

11 - AL CLIMATOLOGY BRANCH
 TAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1114 RECTOR APT FARGO ND 73-80 NOV
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 0600-2000
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.7	4.3	5.3	2.4	.4	.4					14.9	12.5
NNE	.1	1.1	1.4	.8	.7							4.2	10.5
NE	.1	.6	.6	.1								1.4	6.7
ENE	.1	.4	.3									.8	6.2
E		.7	1.4	.3								2.4	7.4
ESE		.1	.4	.3								.3	9.3
SE		.4	1.1	1.1								3.1	9.1
SSE	.1	1.5	2.2	4.4	1.0	.1						7.4	11.6
S	.7	3.6	6.9	6.1	.1							17.5	9.2
SSW	.1	2.1	1.8	.7								4.7	7.3
SW	.4	1.1	1.0	.7	.1							3.3	7.7
WSW	.1	1.3	1.9	.7	.1							4.7	7.8
W	.1	1.0	4.2	1.9								8.2	8.6
WNW	.3	1.0	2.5	1.8	.4							6.3	9.8
NW	.3	1.9	1.2	2.1	1.4	.7						7.5	12.2
NNW		1.0	1.8	2.8	.7	.3						6.5	12.1
VARBL													
CALM												4.4	
	3.1	21.4	33.1	29.2	6.9	1.5	.4					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 720

METEOROLOGICAL BRANCH
 AFETAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 STATION NAME ALL WEATHER CLASS 73-80 YEARS 1900-1100 HOURS (L.S.T.)
 1-14 STATION NAME ALL WEATHER CLASS 73-80 YEARS 1900-1100 HOURS (L.S.T.)
 1-14 STATION NAME ALL WEATHER CLASS 73-80 YEARS 1900-1100 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	1.4	3.1	6.9	3.3	1.2	.4	.3				17.1	14.7
NNE	.1	.6	.6	1.1	.3	.1						2.8	11.1
NE	.7	.7	1.1		.1							1.6	3.7
ENE			1.0	.4								1.4	9.7
E	.1	.3	.4	.4								1.2	8.3
ESE		.1	.4	.6								1.2	9.7
SE		.4	1.4									1.6	8.7
SSE		1.0	2.1	4.6	1.5							7.2	12.4
S		1.0	5.8	7.1	1.5	.3						15.7	11.7
SSW		1.0	1.9	1.4								4.3	9.2
SW		1.0	2.2	1.0								4.7	8.2
WSW	.1	1.4	1.5	.7	.1							3.9	8.2
W	.3	1.1	1.9	2.2	1.0	.1						6.7	10.9
WNW	.4	1.1	1.8	3.3	1.0	.4						8.1	11.9
NW		.7	2.5	2.8	1.3	.6	.3					8.6	14.1
NNW		1.0	3.3	2.9	2.1	.1						9.4	12.2
VARBL													
CALM												2.1	
	1.6	12.8	31.2	35.4	12.8	2.9	.7	.3				100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 720

U.S. AIR FORCE
 WEATHER SERVICE/AFAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1. 14 STATION NAME: AETOP AIT FARGO ND YEARS: 73-80 MONTH: NOV
 CLASS: ALL WEATHER HOURS (L.S.T.): 1200-1400
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.7	4.7	6.1	2.6	2.2	.1	.3				17.4	14.1
NNE	.1	.5	1.5	1.0	.6							3.7	10.7
NE	.1	.7	1.1	.3								1.3	8.9
ENE			.3	.4								.7	11.4
E			.4	.4								.8	10.8
ESE		.1	.3	.4								.2	10.2
SE		.1	.4	1.2								1.9	11.0
SSE		.7	1.5	7.3	2.4	.7	.1					4.3	15.1
S	.1	1.1	4.7	4.3	1.0	.6						11.1	11.7
SSW	.3	.6	1.8	2.9	.4							5.0	10.9
SW	.3	1.1	3.1	1.4	.3							6.1	9.9
WSW		.5	1.4	.6								2.5	8.9
W	.1	.7	2.6	3.2	.4	.1						7.2	11.5
WNW		1.1	2.1	3.5	1.0	.8	.7					5.2	13.9
NW	.1	1.7	1.4	2.6	2.2	1.4	.1					6.9	14.7
NNW		.5	2.9	4.9	2.5	.7	.3					11.0	14.0
VARBL													
CALM												1.4	
	1.4	9.6	29.6	36.5	13.3	6.5	1.4	.3				100.0	12.6

TOTAL NUMBER OF OBSERVATIONS 72

U.S. AIR FORCE METEOROLOGICAL BRANCH
AFMTC
U.S. AIR FORCE SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 IN STATION HECTOR APT FARGO ND 73-80 YEARS NOV NORTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.5	4.3	7.6	1.9	2.4		.4				18.0	13.8
NNE	.1	.7	2.1	1.7	.4	.1						3.1	10.6
NE	.1	.1	2.2									2.5	7.5
ENE	.1	.1	.1	.4	.3							1.0	11.5
E	.1	.1		.1								.4	6.7
ESE			.6	.7								1.2	10.9
SE		.3	1.7	1.5	.1							3.6	10.2
SSE		.6	1.8	3.1	1.2	.9						7.5	13.9
S	.1	1.5	4.4	2.9	.8	.8						10.7	11.1
SSW		1.0	2.4	1.8	.1							3.3	9.7
SW	.3	1.5	.8	1.1								3.7	7.7
WSW	.2	1.7	1.4	.8								3.5	7.9
W	.1	1.5	3.3	.8	.4							6.2	9.0
WNW	.1	1.5	1.7	1.9	1.5	.1	.3					7.5	12.4
NW		.4	1.7	5.3	1.4	.4	.1	.5				9.6	14.1
NNW	.4	1.2	2.5	4.7	1.5	.4	.1					11.0	12.4
VARBL													
CALM												2.6	
	10.2	13.2	31.2	34.4	9.9	5.1	.6	.7				100.0	11.4

TOTAL NUMBER OF OBSERVATIONS 72

CENTRAL CLIMATOLOGY BRANCH
 AFMPC
 1000 EIGHTH AVENUE/NAO

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. 14 STATION HECTOR APT FARGO ND 73-80 YEARS NOV
 STATION NAME CLASS ALL WEATHER MONTH NOV
 CONDITION 1800-2000
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.0	2.5	3.7	6.1	2.4	.6	.6	.1				11.7	12.7
NNE	.1	1.7	1.2	1.7	.3							5.7	9.1
NE		1.4	1.2	.1								2.5	6.5
ENE	.7	.5	.4		.3	.1						1.7	9.4
E				.3								.3	13.5
ESE	.3	.4	1.0	.1								1.3	7.3
SE	.1	.3	2.9	1.0	.1							4.0	9.3
SSE		.4	2.5	2.9	1.4	.6						6.1	13.1
S	.3	3.6	6.7	3.9	1.4							15.2	9.6
SSW	.7	1.7	2.2	.1								3.6	7.2
SW	.7	1.7	1.4	.1								3.9	6.0
WSW	.7	.4	1.5	.6								3.2	7.2
W	.1	2.5	3.6	.6	.3							7.5	7.6
WNW	.1	1.3	3.3	1.8	1.0	.1						7.9	10.2
NW	.4	1.4	.8	1.8	.4	.1		.4				5.4	12.2
NNW		.5	2.2	2.6	.7	.3		.1				6.5	12.5
VARBL													
CALM												4.3	
	4.0	20.7	35.7	24.0	8.2	1.8	.6	.7				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 720

AL CLIMATOLOGY BRANCH
 AFAC
 DATA SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14	ROSTON APT FARGO ND	73-83	NOV
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			1100-2300
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.1	4.9	4.7	1.5	1.0	.1					13.4	12.1
NNE	.3	.7	1.0	1.0	.7							4.2	10.3
NE		1.0	1.1	.1								2.8	6.8
ENE	.1	.6	.3	.1								1.1	7.1
E		1.1	.7	.1	.1							2.1	7.8
ESE	.3	.4	1.0	.3								1.9	7.1
SE		1.0	2.1	1.8		.1						5.0	9.7
SSE	.1	.4	1.4	3.2	1.3	.3						6.7	13.0
S	.7	2.0	8.5	5.6	.8							10.5	9.4
SSW	.4	2.4	3.1	.4								6.3	6.8
SW		1.0	1.7									2.6	6.7
WSW		1.5	1.4	.4								3.3	7.2
W	.5	2.8	1.7	2.1	.1							7.2	8.2
WNW	.1	.8	3.3	2.2	.8							7.4	10.8
NW		1.9	2.1	1.5	.8		.1	.3				6.8	11.6
NNW	.1	.5	1.3	1.8	1.0		.4					5.1	13.1
VARBL													
CALM												5.1	
	3.2	20.7	35.9	25.5	7.2	1.4	.7	.3				100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 716

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFSTAC
 1000 EAST WILSON BLVD/MAO

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	14	STATION NAME	VECTOR APT FARGO ND	YEARS	73-80	MONTHS	NOV
ALL WEATHER						ALL	
CLASS						HOURS (L.S.T.)	
CONDITION							

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.0	3.9	5.9	2.2	1.1	.3	.1				19.9	13.0
NNE	.2	.9	1.4	1.0	.5	.1						4.1	10.7
NE	.2	.7	1.1	.1	.0							2.1	7.1
ENE	.1	.5	.4	.2	.1	.0						1.4	8.4
E	.1	.6	.4	.3	.0							1.4	7.8
ESE	.1	.3	.6	.4								1.4	8.7
SE	.1	.6	1.4	1.0	.1	.0						3.2	9.5
SSE	.1	.3	2.1	3.9	1.4	.4	.0					4.6	12.9
S	.0	2.5	6.6	5.3	.7	.2						15.7	10.1
SSW	.2	1.7	2.2	1.0	.1							5.2	6.0
SW	.3	1.3	1.6	.5	.1							3.8	7.5
WSW	.2	1.1	1.5	.6	.0							3.4	7.7
W	.3	1.0	2.7	2.0	.3	.0						7.3	9.2
WNW	.2	1.1	2.3	2.3	.8	.2	.2					7.0	11.7
NW	.2	1.2	1.8	2.5	1.3	.5	.1	.1				7.7	12.6
NNW	.1	.9	2.2	3.0	1.3	.4	.2	.0				7.9	12.9
VARB													
CALM												4.0	
	2.4	18.7	32.3	30.0	8.9	3.0	.7	.3				100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 9754

U.S. AIR FORCE CLIMATOLOGY BRANCH
AFAC
AFAC DATA SERVICE/AFAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17114 HECTOP APT FARGO ND 73-80 DEC
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.5	4.3	5.1	1.6	.7						13.4	11.9
NNE	.4	.4	1.9	.9	.4							4.0	5.7
NE	.5	.9	.7									2.2	5.7
ENE	.6	1.3	.5	.1								2.8	5.3
E	.3	.6	.7	.4								2.2	7.1
ESE	.4	.9	.3	.3								1.7	5.6
SE	.5	1.1	.7	1.3	.1							3.3	6.4
SSE		.3	2.0	4.7	3.0	.5						10.5	14.5
S	.1	0.2	6.6	5.8	.9							13.7	9.6
SSW	.3	1.6	1.9	.5								4.3	7.0
SW	.3	2.2	.5	.9	.3							4.2	6.0
WSW	.3	.7	1.1	.7								2.8	7.9
W	.1	2.6	.7	.7	.5	.4	.1					5.1	10.0
WNW	.5	.7	1.7	.4	.1							3.5	7.7
NW		.7	1.5	2.4	1.3	.5						6.6	10.5
NNW	.3	.5	1.6	2.7	1.5	.3						7.1	12.6
VARBL													
CALM												0.9	
	5.1	22.0	26.6	27.0	9.8	2.4	.1					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH

STAC

WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-19 STATION 1-19 HECTOR APT FARGO ND 73-80 YEARS MONTH DEC 0300-0500 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	1.6	3.6	5.1	2.7	.1						13.4	12.1
NNE	.3	1.2	2.4	.7	.3							4.8	8.5
NE	.1	1.3	.3	.3								2.2	5.9
ENE	.1	.5	.9	.3								1.9	7.8
E	.2	.3	.8									1.3	6.6
ESE	.2	.3	.7	.4								1.6	7.8
SE	.1	1.5	.8	1.9	.1							4.4	9.2
SSE	.3	1.1	1.6	4.7	2.7	.4						13.1	13.2
S	.3	4.3	7.7	6.5	.3							19.0	9.3
SSW	.1	1.7	2.4	.3								4.6	7.3
SW	.1	.2	.5	.5	.1							2.3	8.4
WSW		1.5	1.3	.4								3.4	7.3
W	.5	1.2	1.5	.9								4.2	7.2
WNW	.3	1.5	1.6	1.9	.5	.1						5.9	10.2
NW		1.2	1.3	2.0	1.3	.3						6.2	12.3
NNW	.3	.4	1.2	3.2	.9	.5	.3					6.9	14.0
VARBL													
CALM												7.9	
	3.5	20.7	28.8	29.0	8.3	1.5	.3					170.0	9.4

TOTAL NUMBER OF OBSERVATIONS 744

AL CLIMATOLOGY BRANCH
 ELIAC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 - 14 STATION HECTOR APT CARGO NO 73-80 YEARS DEC MONTH 600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.2	4.5	5.5	1.7	1.6	.1					14.5	13.1
NNE		.6	1.3	.7	.3	.1						3.4	10.7
NE	.3	.7	1.2	.1								2.3	6.5
ENE		.7	1.2	.1								1.6	8.3
E	.1		1.1	.5								1.7	9.5
ESE	.7	.7	.3	.5								1.7	7.5
SE	.3	.5	1.2	1.3	.4							4.7	9.9
SSE	.7	1.1	1.9	4.7	2.3	.1						10.3	12.8
S	.7	4.7	6.7	6.2	.7							19.3	9.2
SSW	.3	1.7	1.5	.4								3.9	7.1
SW	.7	1.6	.9	.9								4.2	7.4
WSW	.5	1.2	.4	.3								2.4	6.1
W	.5	1.1	2.3	.7								5.1	7.6
WNW	.1	1.3	1.9	1.3		.5						5.2	10.5
NW	.1	1.1	1.9	1.6	.7	.8						6.2	12.6
NNW	.1	.7	1.7	2.4	1.7	.1		.3				7.1	13.4
VARBL													
CALM												7.3	
	4.6	19.1	30.1	27.4	7.8	3.4	.1	.3				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE
CLIMATE BRANCH
METEOROLOGICAL SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 STATION PROCTOR APT FARGO ND STATION NAME 73-80 YEARS DEC MONTH 1900-1100 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N		1.6	3.9	4.6	2.4	1.5	.4					14.4	13.8
NNE	.5	.9	1.7	.8								3.4	6.4
NE	.1	.4	.7	.3								1.5	7.8
ENE	.1	.4	1.3	.3								2.2	7.7
E		.7	.8	.1								1.5	7.7
ESE	.1	.7	.3	.9								2.0	9.3
SE	.1	.7	1.2	.8	.3							3.4	9.4
SSE	.1	1.6	1.5	4.4	2.3	.8						10.8	13.3
S	.3	4.0	5.4	6.3	2.3	.1						18.4	10.7
SSW	.7	1.3	1.7	1.2								4.6	8.1
SW	.1	1.3	1.3	.4								3.2	7.6
WSW	.1	.8	1.5	.4								2.8	8.1
W	.7	2.6	1.9	2.0	.3							7.0	8.5
WNW		.4	1.2	2.3	.8	.1						4.8	13.0
NW	.4	1.2	1.6	2.3	.8	.1	.1					6.6	11.6
NNW		1.1	2.3	2.8	.8	1.1	.3					8.3	13.5
VARBL													
CALM												5.1	
	2.4	17.6	28.4	30.0	9.9	3.6	.8					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-14 HECTOR APT FARGO ND 73-80 DEC

STATION STATION NAME YEARS MONTH

ALL WEATHER

CLASS

CONDITION

1200-1400

HOURLS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	2.6	2.0	5.2	3.8	1.5	.3					15.7	14.1
NNE		.5	1.5	1.6								3.9	9.8
NE		.4	.5									.9	6.7
ENE		.5	.4	.4								1.3	8.0
E		.5	.8	.4								1.7	8.5
ESE	.1	.7	.9	.8								2.6	8.9
SE	.1	.7	1.2	1.2	.1							3.4	9.3
SSE		.9	2.0	3.4	1.1	.5						8.2	13.4
S	.4	1.3	4.3	9.3	2.0	.7						18.3	12.6
SSW	.3	1.2	1.7	1.5	.1							4.6	9.0
SW		1.6	.9	.4								3.0	7.4
WSW		.3	1.6	.4								2.8	8.5
W		.6	2.6	2.3	.4							6.0	10.7
WNW	.1	.4	1.6	2.7	1.2	.4						6.5	13.1
NW	.1	1.2	1.2	3.0	1.7	.3	.1					7.7	13.0
NNW		1.5	2.3	3.0	1.6	1.1	.1					9.5	13.4
VARBL													
CALM												3.9	
	1.5	16.0	25.7	35.5	12.1	4.8	.5					170.0	11.5

TOTAL NUMBER OF OBSERVATIONS 744

U. S. AIR FORCE
 CLIMATE BRANCH
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80
 STATION NAME YEARS
 ALL WEATHER
 CLASS
 DEC
 1900-1700
 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.4	3.1	4.7	4.0	2.0						16.9	13.3
NNE		1.1	1.7	1.6	.4							4.8	10.3
NE		.7	.1	.4								1.2	6.4
ENE	.1	1.2	.7	.3								2.3	6.3
E	.3	.7	1.6	.3								2.8	7.6
ESE	.1	.0	.5									1.6	6.8
SE	.1	1.1	1.6	.7	.3	.1	.1					4.0	10.0
SSE		.7	1.9	2.2	1.6	.9	.1					8.5	14.0
S		1.3	5.6	7.4	1.2	.4						16.9	11.4
SSW	.3	.0	2.3	1.1								4.2	8.6
SW	.4	1.1	1.3	.1								3.0	6.6
WSW	.3	1.1	1.1	.4								2.6	7.3
W	.3	1.2	2.7	.3	.4	.4						5.3	9.8
WNW		.2	2.6	2.4	1.1							6.3	12.3
NW	.1	1.2	2.2	2.3	.3	.3						6.3	10.6
NNW	.3	.7	2.7	3.2	.5	1.2						8.6	12.8
VARBL													
CALM												4.4	
	2.6	17.7	31.5	28.4	9.8	5.4	.3					100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 744

LOCAL CLIMATOLOGY BRANCH
 AFM 147
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

114 SECTOR AFT FARGO ND 73-80 DEC
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 1980-2000
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN - WIND SPEED
N	.4	3.4	3.1	5.4	3.5	1.2						16.7	12.4
NNE	.5	1.2	.5	1.6	.1							3.3	9.5
NE	.1	.5	.4	.8								1.9	9.4
ENE	.1	1.1	.4	.4								2.4	6.9
E		.8	1.9									2.7	7.7
ESE	.1	1.2	.3	.1								1.7	5.6
SE	.7	1.2	.7	1.3								3.5	8.8
SSE	.1	.5	1.9	4.4	1.5	1.3	.4					15.6	14.4
S	.7	3.4	3.8	6.7	1.2	.4						16.1	16.5
SSW	.1	1.2	1.9	.1	.1							3.5	7.6
SW	.3	1.6	1.2	1.2	.1							4.4	8.1
WSW	.4	1.9	.7	.4	.3							3.5	7.5
W	.7	2.2	2.0	.5	.4	.4	.4					6.2	10.2
WNW	.1	.7	1.9	1.3	.1							4.4	9.7
NW		.9	1.3	1.7	.5	.1						4.7	10.6
NNW	.1	1.2	2.2	.8	.9	.7	.1					6.0	12.1
VARBL													
CALM												7.4	
	3.5	23.7	24.5	27.0	8.9	4.2	.9					110.0	9.9

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
 AFMSTAC
 AFMSTATION SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 YEARS 1
 STATION MONTH
 ALL WEATHER
 CLASS
 CONDITION
 100-2300
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	2.4	5.9	2.4	1.2						14.0	13.4
NNE	.1	1.5	1.5	1.2								4.3	8.3
NE	.1	.7	.5	.3								1.6	7.2
ENE	.3	1.6	.5	.4								2.3	6.6
E	.3	1.2	.8	.3								2.6	6.7
ESE	.1	.9	.3	.3								1.6	6.6
SE	.1	.7	.7	.9								2.4	6.3
SSE	.4	1.3	2.3	3.8	2.3	.8						10.9	13.3
S	.4	3.1	6.0	6.6	2.0	.4						16.4	11.0
SSW	.3	1.3	1.7	.7								4.0	7.4
SW	.5	1.9	.9	.5	.1							4.0	7.3
WSW	.3	2.0	1.3	.7	.3							4.6	7.9
W	.4	2.2	2.2		.5	.5						5.2	9.3
WNW	.1	1.0	2.0	1.1	.3	.1						5.5	9.2
NW	.3	.7	.9	1.9	.8	.3						5.1	12.2
NNW	.5	1.1	.4	1.9	2.0	.5						6.5	13.5
VARBL													
CALM												5.9	
	4.7	23.4	25.0	26.3	10.9	3.9						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 744

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMPC
 WEATHER SERVICE/MAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 14 HECTOR APT FARGO ND 73-80 DEC
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION
 ALL
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.7	3.4	5.2	2.8	1.2	.1					14.0	13.0
NNE	.2	1.1	1.6	1.1	.7	.0						4.0	9.0
NE	.2	.7	.6	.3								1.7	7.0
ENE	.2	.0	.8	.3								2.2	6.0
E	.7	.6	1.1	.3								3.1	7.6
ESE	.7	.0	.4	.4								1.8	7.4
SE	.2	1.0	1.0	1.2	.2	.0	.0					3.6	9.3
SSE	.7	1.0	1.0	4.2	2.0	.7	.1					10.0	13.6
S	.4	3.5	5.8	6.8	1.3	.3						15.1	10.6
SSW	.7	1.4	1.9	.7	.0							4.2	7.8
SW	.7	1.5	1.0	.6	.1							3.5	7.6
WSW	.7	1.3	1.1	.5	.1							3.2	7.6
W	.3	1.7	2.0	.9	.3	.2	.1					5.6	9.3
WNW	.7	1.0	1.8	1.7	.5	.2						5.3	10.7
NW	.1	1.1	1.5	2.2	.9	.3	.0					6.2	12.1
NNW	.2	.7	1.8	2.5	1.3	.7	.1	.0				7.5	13.2
VARBL													
CALM												0.1	
	3.7	20.3	27.6	28.8	9.7	3.7	.4	.0				100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 5952

U.S. AIR FORCE
 CLIMATE DIVISION
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1 214 HECSTOF APT FARGO ND STATION NAME 73-81 YEARS
 CLASS ALL WEATHER
 CONDITION
 ALL MONTHS
 ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.3	2.0	3.5	4.6	2.0	.9	.1	.0				13.3	12.7
NNE	.2	1.1	1.6	1.3	.3	.1	.0					4.5	9.7
NE	.7	.9	1.1	.6	.1	.0	.0					2.9	8.2
ENE	.0	1.0	.8	.3	.0	.0	.0					2.4	7.3
E	.7	1.1	1.1	.5	.1	.0						3.0	8.0
ESE	.2	1.1	1.1	.7	.1	.0						3.2	8.4
SE	.0	1.2	2.0	2.1	.4	.1	.0					6.0	10.3
SSE	.1	.7	2.3	4.4	1.6	.5	.0					10.0	13.0
S	.3	2.6	5.1	5.4	1.3	.3	.0					15.1	10.7
SSW	.2	1.7	1.5	.9	.2	.0	.0					4.0	8.9
SW	.2	1.2	1.1	.6	.1	.0						3.2	8.7
WSW	.2	.9	1.2	.6	.1	.0	.0					3.0	8.0
W	.3	1.5	2.0	1.3	.4	.1	.0	.0				5.7	9.4
WNW	.2	1.1	1.8	1.6	.6	.2	.1	.0				5.5	10.9
NW	.7	1.1	1.7	1.9	.8	.3	.0	.0				6.1	11.7
NNW	.2	1.1	1.9	2.5	1.1	.4	.1	.0				7.4	12.3
VARBL													
CALM												4.4	
	7.3	20.0	29.9	29.6	9.3	3.0	.4	.1				100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 7112

SURFACE WINDS

1	10	SECTION APT FARGO ND	73-81	ALL
STATION		STATION NAME	YEARS	MONTH
INSTRUMENT				ALL
CLASS				HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	4.7	7.7	5.9	3.2	.4	.0				20.7	14.3
NNE	.1	.5	2.5	2.2	.9	.3	.0					5.9	11.5
NE	.2	.5	1.3	.8	.2							2.3	4.5
ENE	.1	.5	.9	.7	.1							2.5	5.7
E	.1	.6	1.6	1.1	.2							3.3	6.5
ESE	.1	.6	1.3	1.1	.3	.1						3.6	9.7
SE	.1	1.2	2.2	2.3	.5	.1						6.3	10.5
SSE	.1	.1	2.0	4.3	1.9	.5	.0					4.4	13.3
S	.0	1.5	3.0	3.3	.5	.2						7.6	10.5
SSW	.1	.7	.4	.3	.0	.0						1.5	8.1
SW	.1	.4	.5	.2	.0	.1						1.3	8.4
WSW	.1	.1	.3	.3	.0	.0						1.3	8.5
W	.1	.7	.8	1.0	.2	.0	.0					2.9	10.4
WNW	.1	.1	.9	.9	.4	.7	.1	.1				3.3	12.4
NW	.1	.5	1.4	1.7	1.4	.5	.1	.0				6.3	14.3
NNW	.0	.1	1.5	3.6	2.9	1.4	.3	.0				11.1	15.0
VARBL													
CALM												3.6	
	3.2	14.3	25.0	31.5	15.4	6.7	1.1	.1				100.0	12.1

TOTAL NUMBER OF OBSERVATIONS	7199
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U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

2
SERIAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14

HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1999
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	48.4	49.6	50.8	51.6	52.0	52.4	52.4	52.4	52.4	52.6	52.6	52.6	52.6	52.6	52.7	52.8
≥ 20000	50.7	51.9	53.1	54.0	54.4	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.2
≥ 18000	50.7	51.9	53.1	54.0	54.4	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.2
≥ 16000	50.7	51.9	53.1	54.0	54.4	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.2
≥ 14000	51.2	52.6	53.8	54.7	55.1	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.8	55.9
≥ 12000	51.9	53.2	54.4	55.4	55.8	56.2	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.5	56.6
≥ 10000	54.2	55.6	56.9	57.8	58.2	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.9	59.0
≥ 9000	55.2	56.7	57.9	58.9	59.3	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.9	60.1
≥ 8000	56.3	57.8	59.1	59.9	60.3	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	61.0	61.2
≥ 7000	58.1	59.8	61.3	62.1	62.5	62.9	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.3	63.4
≥ 6000	58.7	60.8	62.5	63.7	64.1	64.5	64.7	64.7	64.7	64.9	64.9	64.9	64.9	64.9	65.1	65.2
≥ 5000	59.3	61.4	63.3	64.8	65.2	65.6	65.7	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.1	66.3
≥ 4500	60.2	62.9	64.8	66.4	66.9	67.3	67.5	67.5	67.5	67.7	67.7	67.7	67.7	67.7	67.9	68.0
≥ 4000	61.7	63.8	65.9	67.9	68.5	69.0	69.1	69.1	69.1	69.5	69.5	69.5	69.5	69.5	69.6	69.8
≥ 3500	61.6	64.5	66.7	68.8	69.5	69.9	70.0	70.0	70.0	70.4	70.4	70.4	70.4	70.4	70.6	70.7
≥ 3000	63.2	66.4	69.0	71.1	71.8	72.2	72.3	72.3	72.3	72.7	72.7	72.7	72.7	72.7	73.0	73.1
≥ 2500	65.6	69.5	72.6	74.9	75.5	75.9	76.5	76.5	76.5	76.9	76.9	76.9	76.9	76.9	77.2	77.3
≥ 2000	67.3	71.5	74.7	77.3	78.1	78.8	79.4	79.4	79.4	79.8	80.0	80.0	80.0	80.0	80.2	80.4
≥ 1800	68.1	72.4	75.9	78.6	79.4	80.4	81.3	81.3	81.3	81.7	81.9	81.9	81.9	81.9	82.1	82.3
≥ 1500	69.9	74.5	78.1	81.2	82.1	83.1	84.0	84.0	84.0	84.4	84.5	84.5	84.5	84.5	84.8	84.9
≥ 1200	71.5	76.6	80.4	83.7	84.8	85.8	86.8	86.8	86.8	87.4	87.5	87.5	87.5	87.5	87.8	87.9
≥ 1000	72.0	77.7	81.6	85.2	86.4	87.5	88.6	88.6	88.6	89.1	89.2	89.2	89.2	89.2	89.5	89.7
≥ 900	72.3	78.2	82.1	85.9	87.1	88.2	89.4	89.4	89.4	90.1	90.2	90.2	90.2	90.2	90.5	90.6
≥ 800	72.3	78.2	82.1	85.9	87.4	88.4	89.7	89.7	89.7	90.3	90.5	90.5	90.5	90.6	90.9	91.0
≥ 700	72.8	78.8	82.7	86.4	87.9	89.0	90.3	90.6	90.6	91.3	91.4	91.4	91.5	91.5	91.8	91.9
≥ 600	73.4	79.6	83.5	87.2	88.7	89.8	91.1	91.4	91.7	92.3	92.7	92.7	92.9	93.1	93.4	93.5
≥ 500	73.4	79.6	83.7	87.5	89.1	90.2	91.7	91.9	92.2	93.0	93.5	93.5	93.7	94.0	94.4	94.5
≥ 400	73.7	80.0	84.3	88.2	90.1	91.1	92.6	92.9	93.1	94.0	94.6	94.6	95.2	95.4	95.8	96.0
≥ 300	73.7	80.0	84.3	88.4	90.3	91.4	92.9	93.3	93.5	94.4	95.0	95.0	95.6	95.8	96.4	96.5
≥ 200	73.7	80.0	84.3	88.7	90.6	91.7	93.1	93.8	94.1	95.0	95.7	95.7	96.2	96.5	97.0	97.2
≥ 100	73.7	80.0	84.3	88.7	90.6	91.7	93.1	93.8	94.1	95.0	95.7	95.8	96.8	97.2	97.7	98.4
≥ 0	73.7	80.0	84.3	88.7	90.6	91.7	93.1	93.8	94.1	95.0	95.7	95.8	96.9	97.8	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥5/16	≥1/8	≥0
NO CEILING	45.2	46.8	47.4	48.3	48.3	48.3	48.4	49.1	49.1	49.6	49.6	49.6	49.6	49.7	50.4	50.5
≥ 20000	47.6	49.2	49.9	50.8	50.8	50.8	50.9	51.6	51.6	52.2	52.2	52.2	52.2	52.3	53.0	53.1
≥ 18000	47.6	49.2	49.9	50.8	50.8	50.8	50.9	51.6	51.6	52.2	52.2	52.2	52.2	52.3	53.0	53.1
IV 6000	47.6	49.2	49.9	50.8	50.8	50.8	50.9	51.6	51.6	52.2	52.2	52.2	52.2	52.3	53.0	53.1
≥ 14000	48.7	50.3	50.9	51.9	51.9	51.9	52.0	52.7	52.7	53.2	53.2	53.2	53.2	53.4	54.0	54.2
IV 12000	49.6	51.2	51.9	52.8	52.8	52.8	53.0	53.6	53.6	54.2	54.2	54.2	54.2	54.3	55.0	55.1
≥ 12000	51.6	53.5	54.2	55.1	55.1	55.1	55.2	55.9	55.9	56.5	56.5	56.5	56.5	56.6	57.3	57.4
IV 9000	53.7	55.0	55.6	56.6	56.6	56.6	56.7	57.4	57.4	57.9	57.9	57.9	57.9	58.1	58.7	58.9
≥ 8000	53.4	55.4	56.0	57.0	57.0	57.0	57.1	57.8	57.8	58.3	58.3	58.3	58.3	58.5	59.1	59.3
IV 7000	55.3	57.8	58.5	59.4	59.4	59.5	59.7	60.3	60.3	60.9	60.9	60.9	60.9	61.0	61.7	61.8
≥ 6000	56.4	59.1	60.1	61.2	61.3	61.4	61.6	62.2	62.2	62.8	62.8	62.8	62.8	62.9	63.6	63.7
IV 5000	58.2	60.6	62.1	63.2	63.3	63.4	63.6	64.2	64.2	64.8	64.8	64.8	64.8	64.9	65.6	65.7
≥ 4500	58.9	61.4	62.9	64.1	64.4	64.5	64.7	65.3	65.3	65.9	65.9	65.9	65.9	66.0	66.7	66.8
IV 4000	59.7	62.5	64.0	65.6	66.3	66.4	66.5	67.2	67.2	67.7	67.7	67.7	67.7	67.9	68.5	68.7
≥ 3500	60.9	63.6	65.1	66.7	67.5	67.6	67.7	68.4	68.4	69.0	69.0	69.0	69.0	69.1	69.8	69.9
IV 3000	62.8	65.9	67.3	69.1	69.9	70.0	70.3	71.0	71.0	71.6	71.6	71.6	71.6	71.8	72.4	72.6
≥ 2500	64.5	68.3	69.9	72.3	73.3	73.4	73.7	74.3	74.3	75.0	75.0	75.0	75.0	75.1	75.8	75.9
IV 2000	67.5	71.8	73.5	75.9	77.2	77.3	77.7	78.4	78.4	79.0	79.0	79.0	79.0	79.2	79.8	80.0
≥ 1800	68.0	72.7	74.5	77.0	78.4	78.5	79.2	79.8	79.8	80.5	80.5	80.5	80.5	80.6	81.3	81.5
IV 1500	69.8	74.5	76.3	79.6	80.9	81.0	81.7	82.4	82.4	83.2	83.2	83.2	83.2	83.3	84.0	84.1
≥ 1200	71.4	77.0	78.9	82.3	83.6	83.7	84.4	85.1	85.1	85.9	85.9	85.9	85.9	86.0	86.7	86.8
IV 1000	72.4	78.1	80.1	83.5	85.1	85.6	86.4	87.2	87.2	88.0	88.0	88.0	88.0	88.2	88.8	89.0
≥ 900	72.7	78.4	80.4	83.7	85.3	86.0	87.0	88.0	88.0	88.8	88.8	88.8	88.8	89.0	89.7	89.8
IV 800	73.0	73.9	80.9	84.3	85.9	86.7	87.6	88.7	88.7	89.5	89.5	89.5	89.5	89.7	90.3	90.5
≥ 700	73.1	79.2	81.2	84.7	86.3	87.2	88.2	89.2	89.2	90.3	90.3	90.3	90.3	90.5	91.1	91.3
IV 600	73.9	80.2	82.3	85.8	87.4	88.3	89.2	90.3	90.3	91.4	91.4	91.4	91.4	91.5	92.2	92.3
≥ 500	74.3	80.8	82.9	86.4	88.0	89.1	90.1	91.1	91.1	92.2	92.5	92.5	92.5	92.7	93.7	93.8
IV 400	74.3	80.8	82.9	86.6	88.2	89.2	90.2	91.3	91.3	92.5	92.7	92.7	92.7	93.3	94.8	95.0
≥ 300	74.5	81.2	83.3	87.2	89.1	90.2	91.3	92.3	92.3	93.7	94.2	94.2	94.2	95.2	96.5	96.8
IV 200	74.5	81.2	83.3	87.2	89.1	90.2	91.5	92.6	92.6	94.2	95.2	95.2	95.2	96.1	96.5	96.8
≥ 100	74.5	81.2	83.3	87.2	89.1	90.2	91.5	92.6	92.6	94.2	95.2	95.2	95.2	96.6	97.0	98.7
IV 0	74.6	81.3	83.5	87.4	89.2	90.3	91.7	92.7	92.7	94.4	95.3	95.3	95.3	96.8	97.2	98.8

TOTAL NUMBER OF OBSERVATIONS 744

2
FEDERAL CLIMATOLOGY BRANCH
METAC
AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 FICTOP APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-1800

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	41.9	45.0	46.4	47.0	47.2	47.4	48.3	48.7	48.7	48.9	49.1	49.1	49.1	49.4	49.5	49.5
≥ 20000	43.2	46.4	48.2	48.7	49.0	49.1	50.1	50.5	50.5	50.6	50.9	50.9	50.9	51.1	51.3	51.3
≥ 18000	43.5	46.8	48.6	49.1	49.4	49.5	50.5	50.9	50.9	51.0	51.3	51.3	51.3	51.5	51.7	51.7
≥ 16000	43.5	46.8	48.6	49.1	49.4	49.5	50.5	50.9	50.9	51.0	51.3	51.3	51.3	51.5	51.7	51.7
≥ 14000	44.4	47.8	49.5	50.1	50.3	50.5	51.4	51.8	51.8	52.0	52.2	52.2	52.2	52.5	52.6	52.6
≥ 12000	45.4	49.3	51.0	51.5	51.8	52.0	52.9	53.3	53.3	53.4	53.7	53.7	53.7	54.0	54.1	54.1
≥ 10000	46.7	50.2	52.1	52.6	53.0	53.2	54.1	54.5	54.5	54.6	55.0	55.0	55.0	55.3	55.5	55.5
≥ 9000	47.4	51.1	53.3	53.8	54.2	54.4	55.3	55.7	55.7	55.9	56.3	56.3	56.3	56.5	56.7	56.7
≥ 8000	48.3	52.2	54.4	54.9	55.3	55.5	56.4	56.8	56.8	56.9	57.3	57.3	57.3	57.6	57.7	57.7
≥ 7000	49.9	53.8	56.0	56.5	56.9	57.1	58.1	58.7	58.7	58.8	59.2	59.2	59.2	59.5	59.6	59.6
≥ 6000	51.7	56.1	59.4	59.2	59.6	59.8	60.8	61.4	61.4	61.6	62.0	62.0	62.0	62.3	62.4	62.4
≥ 5000	53.2	57.7	61.4	61.4	61.8	61.9	63.0	63.7	63.7	63.9	64.3	64.3	64.3	64.6	64.7	64.7
≥ 4500	53.4	58.4	61.1	62.0	62.4	62.6	63.7	64.3	64.3	64.6	65.0	65.0	65.0	65.3	65.4	65.4
≥ 4000	55.5	60.3	63.4	64.3	64.9	65.0	66.4	67.0	67.0	67.3	67.7	67.7	67.7	68.0	68.1	68.1
≥ 3500	56.1	61.1	64.2	65.1	65.9	66.1	67.4	68.1	68.1	68.4	68.8	68.8	68.8	69.0	69.2	69.2
≥ 3000	58.5	63.8	67.3	68.6	69.9	70.0	71.3	72.1	72.1	72.4	72.8	72.8	72.8	73.1	73.2	73.2
≥ 2500	60.6	66.4	70.4	72.0	73.2	73.5	75.0	75.8	75.8	76.0	76.4	76.4	76.4	76.7	76.9	76.9
≥ 2000	62.6	68.6	72.9	74.7	75.9	76.2	77.7	78.5	78.5	78.7	79.1	79.1	79.1	79.4	79.5	79.5
≥ 1800	63.3	69.3	73.6	75.5	76.9	77.1	78.6	79.4	79.4	79.7	80.1	80.1	80.1	80.3	80.5	80.5
≥ 1500	64.7	71.1	75.4	77.8	79.3	79.7	81.2	82.0	82.0	82.2	82.6	82.6	82.6	82.9	83.0	83.0
≥ 1200	66.8	73.5	77.9	80.8	82.5	82.9	84.4	85.2	85.2	85.5	85.9	85.9	85.9	86.1	86.3	86.4
≥ 1000	67.8	74.8	79.3	82.4	84.1	84.5	86.0	86.9	86.9	87.8	88.2	88.2	88.4	88.8	89.0	89.1
≥ 900	68.0	75.2	79.8	82.9	84.7	85.1	86.8	88.0	88.0	89.0	89.4	89.4	89.6	90.0	90.2	90.3
≥ 800	68.4	75.8	80.3	83.6	85.5	85.9	87.6	89.0	89.0	89.9	90.3	90.3	90.7	91.1	91.3	91.4
≥ 700	68.6	76.2	80.8	84.3	86.3	86.7	88.6	89.9	89.9	90.8	91.3	91.3	91.7	92.1	92.2	92.3
≥ 600	69.2	76.9	81.4	84.9	86.9	87.3	89.2	90.6	90.6	91.5	92.1	92.1	92.7	93.1	93.4	93.7
≥ 500	69.9	77.7	82.4	85.9	88.0	88.4	90.3	91.9	91.9	93.0	93.5	93.5	94.3	94.8	95.3	95.6
≥ 400	69.9	77.7	82.4	85.9	88.0	88.4	90.3	91.9	91.9	93.0	93.5	93.5	94.6	95.4	96.0	96.2
≥ 300	69.9	77.9	82.8	86.3	88.6	89.0	90.8	92.6	92.6	93.7	94.3	94.3	95.4	96.4	96.9	97.2
≥ 200	69.9	77.9	82.8	86.3	88.6	89.0	90.8	92.6	92.6	93.7	94.3	94.5	96.1	97.2	97.8	98.3
≥ 100	69.9	77.9	82.8	86.3	88.6	89.0	90.8	92.6	92.6	93.7	94.3	94.5	96.2	97.4	98.3	99.1
≥ 0	69.9	77.9	82.8	86.3	88.6	89.0	90.8	92.6	92.6	93.7	94.3	94.5	96.2	97.4	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 743

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14
 STATION

AFECTOR APT FARGO ND
 STATION NAME

74-81
 YEARS

JAN
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅓	≥⅓	≥⅓	≥0
NO CEILING ≥ 20000	41.3 44.5	44.5 49.3	45.8 50.7	46.6 51.6	47.0 52.2	47.4 52.7	47.7 53.0	47.8 53.1	47.8 53.1	48.4 53.6	48.7 53.9	48.7 53.9	49.2 55.0	49.2 55.0	49.5 55.2	49.5 55.2
≥ 18000 ≥ 16000	45.7 45.7	50.0 50.0	51.3 51.3	52.3 52.3	52.8 52.8	53.4 53.4	53.6 53.6	53.8 53.8	53.8 53.8	54.3 54.3	54.6 54.6	54.6 54.6	55.6 55.6	55.6 55.6	55.9 55.9	55.9 55.9
≥ 14000 ≥ 12000	45.2 46.7	50.3 51.3	51.6 52.7	52.6 53.6	53.1 54.2	53.6 54.7	53.9 55.0	54.0 55.1	54.0 55.1	54.6 55.8	54.8 56.2	54.8 56.2	55.9 57.3	55.9 57.3	56.2 57.5	56.2 57.5
≥ 10000 ≥ 9000	47.4 48.9	53.2 55.2	54.7 57.0	55.9 58.2	56.5 58.7	57.0 59.4	57.3 59.7	57.5 59.9	57.5 59.9	58.3 60.8	58.7 61.2	58.7 61.2	59.8 62.2	59.8 62.2	60.1 62.5	60.1 62.5
≥ 8000 ≥ 7000	49.9 51.1	56.2 57.5	58.1 59.4	59.3 60.8	59.9 61.4	60.6 62.1	60.9 62.4	61.2 62.6	61.2 62.6	62.4 64.1	62.8 64.5	62.8 64.5	63.8 65.6	63.8 65.6	64.1 65.9	64.1 65.9
≥ 6000 ≥ 5000	53.1 53.9	57.7 60.8	61.6 62.8	62.9 64.2	63.7 65.2	64.4 65.9	64.7 66.1	64.9 66.4	64.9 66.4	66.4 67.9	66.8 68.4	66.8 68.4	67.9 69.5	67.9 69.5	68.1 69.8	68.1 69.8
≥ 4500 ≥ 4000	54.4 56.0	61.4 63.3	63.4 65.9	64.9 67.3	65.9 68.3	66.5 69.0	66.9 69.5	67.2 69.8	67.2 69.8	68.8 71.4	69.4 71.9	69.4 71.9	70.6 73.1	70.6 73.1	70.9 73.4	70.9 73.4
≥ 3500 ≥ 3000	56.7 57.1	63.4 64.9	66.0 67.7	67.5 69.2	68.7 70.4	69.5 71.4	70.2 72.0	70.4 72.3	70.4 72.3	72.0 74.1	72.6 74.6	72.6 74.6	73.8 75.8	73.8 75.8	74.1 76.1	74.1 76.1
≥ 2500 ≥ 2000	57.9 59.1	66.0 67.5	68.8 70.4	70.6 72.3	71.8 73.5	72.8 74.7	73.7 75.8	74.1 76.5	74.1 76.5	75.8 78.2	76.3 78.8	76.3 78.8	77.6 80.0	77.6 80.0	77.9 80.2	77.9 80.2
≥ 1800 ≥ 1500	59.5 60.5	67.9 69.2	70.8 72.2	72.8 74.2	74.2 75.7	75.4 76.9	76.5 78.2	77.2 78.9	77.2 78.9	78.9 80.6	79.4 81.2	79.4 81.2	81.6 82.4	81.6 82.4	80.9 82.7	80.9 82.7
≥ 1200 ≥ 1000	62.1 62.5	71.4 72.6	74.5 76.1	76.7 78.6	78.2 80.1	79.6 81.6	81.3 83.6	82.0 84.8	82.0 84.8	83.9 86.7	84.4 87.4	84.4 87.4	85.6 88.6	85.6 88.6	85.9 89.7	85.9 89.7
≥ 900 ≥ 800	62.8 62.3	73.4 73.4	76.9 76.9	79.6 79.6	81.2 81.3	82.7 82.9	84.9 85.2	86.2 86.4	86.2 86.4	88.4 89.0	89.2 89.8	89.2 89.8	90.5 91.0	90.5 91.0	90.9 91.4	90.9 91.4
≥ 700 ≥ 600	62.8 62.9	73.7 73.9	77.4 77.8	80.1 80.8	82.0 83.1	83.7 84.8	86.4 87.5	87.8 89.0	87.8 89.0	90.5 91.8	91.3 92.6	91.3 92.6	92.6 94.1	92.6 94.1	93.0 94.6	93.0 94.6
≥ 500 ≥ 400	62.9 63.0	74.1 74.2	78.0 78.2	80.9 81.2	83.5 84.0	85.2 85.8	87.9 88.4	89.4 89.9	89.4 89.9	92.2 92.7	93.1 93.7	93.1 93.7	94.6 95.2	94.6 95.2	95.4 96.1	95.4 96.1
≥ 300 ≥ 200	63.0 63.0	74.3 74.3	78.4 78.4	81.3 81.3	84.3 84.3	86.2 86.2	89.0 89.0	90.6 90.6	90.6 90.6	93.7 93.7	94.6 94.9	94.6 95.2	96.2 97.0	96.2 97.0	97.3 97.4	97.3 97.4
≥ 100 ≥ 0	63.0 63.0	74.3 74.3	78.4 78.4	81.3 81.3	84.3 84.3	86.2 86.2	89.0 89.0	90.6 90.6	90.6 90.6	93.7 93.7	94.9 94.9	95.2 95.2	97.0 97.0	97.0 97.6	98.8 98.8	98.8 100.0

TOTAL NUMBER OF OBSERVATIONS 744

LOCAL CLIMATOLOGY BRANCH
 AFETAC
 FATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-414

HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	46.1	48.9	50.4	51.5	51.9	52.2	52.7	53.0	53.0	53.1	53.1	53.2	53.4	53.5	53.5	53.5
≥ 20000	48.8	53.8	55.4	56.5	57.1	57.4	57.9	58.2	58.3	58.6	59.3	59.4	59.7	60.2	60.2	60.2
≥ 18000	48.8	53.9	55.5	56.6	57.3	57.5	58.1	58.3	58.5	58.7	59.4	59.5	59.8	60.3	60.3	60.3
≥ 16000	48.8	53.9	55.5	56.6	57.3	57.5	58.1	58.3	58.5	58.7	59.4	59.5	59.8	60.3	60.3	60.3
≥ 14000	48.8	54.0	55.6	56.7	57.4	57.7	58.2	58.5	58.6	58.9	59.5	59.7	59.9	60.5	60.5	60.5
≥ 12000	49.9	55.5	57.1	58.2	58.9	59.1	59.7	59.9	60.1	60.3	61.0	61.2	61.4	62.0	62.0	62.0
≥ 10000	51.3	57.3	59.0	60.1	60.9	61.2	61.7	62.0	62.1	62.4	63.0	63.2	63.4	64.0	64.0	64.0
≥ 9000	51.9	57.9	59.7	60.8	61.6	61.8	62.4	62.6	62.8	63.2	63.8	64.0	64.2	64.8	64.8	64.8
≥ 8000	53.0	59.4	61.3	62.4	63.2	63.4	64.0	64.2	64.4	64.8	65.5	65.6	65.9	66.4	66.4	66.4
≥ 7000	53.6	60.1	62.0	63.0	63.8	64.1	64.7	64.9	65.1	65.5	66.1	66.3	66.5	67.1	67.1	67.1
≥ 6000	54.3	60.9	62.9	64.2	65.1	65.3	66.0	66.3	66.4	66.8	67.5	67.6	67.9	68.5	68.5	68.5
≥ 5000	54.8	61.6	63.7	65.2	66.1	66.4	67.1	67.3	67.5	67.9	68.5	68.7	69.0	69.6	69.6	69.6
≥ 4500	55.1	62.1	64.2	65.7	66.7	66.9	67.6	67.9	68.0	68.4	69.1	69.2	69.5	70.2	70.2	70.2
≥ 4000	56.3	64.1	66.3	67.7	68.7	69.0	69.6	69.9	70.0	70.4	71.4	71.5	71.8	72.4	72.4	72.4
≥ 3500	57.4	65.1	67.3	68.8	69.8	70.2	70.8	71.1	71.2	71.6	72.6	72.7	73.0	73.7	73.7	73.7
≥ 3000	58.5	66.3	68.9	70.3	71.2	71.6	72.4	72.7	72.8	73.3	74.2	74.3	74.6	75.3	75.3	75.3
≥ 2500	60.2	68.4	71.0	72.4	73.4	73.9	74.7	75.0	75.1	75.9	76.9	77.0	77.3	78.0	78.0	78.0
≥ 2000	62.4	71.6	74.2	76.1	77.0	77.7	78.6	78.9	79.0	79.8	80.8	80.9	81.2	81.9	81.9	81.9
≥ 1800	62.4	71.9	74.5	76.3	77.4	78.1	79.0	79.3	79.4	80.2	81.2	81.3	81.6	82.3	82.3	82.3
≥ 1500	63.8	73.4	76.2	78.1	79.4	80.2	81.5	82.3	82.4	83.3	84.5	84.7	84.9	85.6	85.6	85.6
≥ 1200	64.8	75.0	78.0	80.2	81.6	82.5	84.1	85.2	85.5	86.4	87.6	87.8	88.0	88.7	88.7	88.7
≥ 1000	66.0	76.6	79.6	81.9	83.3	84.3	86.0	87.4	87.8	89.0	90.2	90.5	90.7	91.4	91.4	91.4
≥ 900	66.0	76.6	79.6	82.0	83.5	84.4	86.2	87.5	87.9	89.1	90.5	90.7	91.0	91.3	91.3	91.3
≥ 800	66.1	76.7	79.7	82.1	83.7	84.8	86.6	87.9	88.3	89.9	91.3	91.5	91.8	92.6	92.6	92.6
≥ 700	66.1	77.0	80.4	82.8	84.4	85.6	87.6	89.0	89.4	91.0	92.7	93.0	93.8	94.8	94.8	94.8
≥ 600	66.3	77.3	80.8	83.2	84.8	86.2	88.4	89.9	90.3	92.3	94.2	94.5	95.3	96.2	96.2	96.2
≥ 500	66.3	77.3	80.8	83.3	84.9	86.3	88.6	90.3	90.7	92.9	94.8	95.0	95.8	96.9	97.0	97.0
≥ 400	66.3	77.3	80.8	83.3	84.9	86.4	88.7	90.7	91.3	93.4	95.3	95.6	96.5	97.6	97.7	97.7
≥ 300	66.3	77.3	80.8	83.3	84.9	86.4	88.7	90.7	91.3	93.7	95.8	96.1	97.3	98.5	98.7	98.7
≥ 200	66.3	77.3	80.8	83.3	84.9	86.4	88.7	90.7	91.3	93.7	95.8	96.1	97.3	98.5	98.7	98.9
≥ 100	66.3	77.3	80.8	83.3	84.9	86.4	88.7	90.7	91.3	93.7	95.8	96.1	97.3	98.5	98.8	99.2
≥ 0	66.3	77.3	80.8	83.3	84.9	86.4	88.7	90.7	91.3	93.7	95.8	96.1	97.3	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14
 STATION

HECTOR APT FARGO ND
 STATION NAME

74-81
 YEARS

JAN
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	44.5	47.3	48.7	48.9	49.3	49.4	49.7	49.8	49.8	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 20000	47.6	50.9	52.1	53.0	53.6	53.7	54.1	54.2	54.2	54.6	55.0	55.0	55.0	55.2	55.2	55.2
≥ 18000	47.8	51.1	52.4	53.3	53.8	54.0	54.4	54.5	54.5	54.9	55.3	55.3	55.3	55.5	55.5	55.5
≥ 16000	47.8	51.1	52.4	53.3	53.8	54.0	54.4	54.5	54.5	54.9	55.3	55.3	55.3	55.5	55.5	55.5
≥ 14000	48.2	51.7	52.9	53.8	54.4	54.5	54.9	55.0	55.0	55.5	55.9	55.9	55.9	56.0	56.2	56.3
≥ 12000	49.3	52.8	54.3	54.9	55.5	55.6	56.0	56.1	56.1	56.5	56.9	56.9	56.9	57.1	57.1	57.1
≥ 10000	50.6	54.4	55.7	57.1	57.7	58.0	58.5	58.7	58.7	59.1	59.5	59.5	59.5	59.6	59.6	59.6
≥ 9000	51.3	55.0	56.4	57.7	58.5	58.8	59.4	59.5	59.5	59.9	60.3	60.3	60.3	60.4	60.4	60.4
≥ 8000	52.2	56.4	57.7	59.1	59.9	60.2	60.7	60.8	60.8	61.4	61.8	61.8	61.8	61.9	61.9	61.9
≥ 7000	54.7	58.4	59.8	61.1	61.9	62.2	62.9	63.0	63.0	63.5	63.9	63.9	63.9	64.1	64.1	64.1
≥ 6000	55.7	60.3	61.6	63.1	63.9	64.2	64.9	65.0	65.0	65.5	66.1	66.1	66.1	66.2	66.2	66.2
≥ 5000	57.2	61.9	63.5	65.0	65.9	66.2	67.0	67.2	67.2	67.7	68.2	68.2	68.2	68.4	68.4	68.4
≥ 4500	57.6	62.6	64.3	65.8	66.8	67.0	68.0	68.1	68.1	68.6	69.2	69.2	69.2	69.3	69.3	69.3
≥ 4000	58.7	63.7	65.7	67.2	68.1	68.4	69.3	69.6	69.7	70.3	70.8	70.8	70.9	71.1	71.1	71.1
≥ 3500	59.5	64.7	66.8	68.2	69.2	69.4	70.4	70.7	70.8	71.3	71.9	71.9	72.0	72.1	72.1	72.1
≥ 3000	61.4	67.2	69.2	70.7	71.7	72.0	73.1	73.4	73.5	74.0	74.6	74.6	74.7	74.8	74.8	74.8
≥ 2500	63.3	69.3	71.7	73.4	74.7	75.0	76.0	76.3	76.4	77.4	77.9	77.9	78.1	78.2	78.2	78.2
≥ 2000	65.8	71.9	74.4	76.0	77.4	77.7	78.9	79.1	79.3	80.2	80.8	80.8	80.9	81.0	81.0	81.0
≥ 1800	66.8	73.1	75.6	77.3	78.6	78.9	80.2	80.5	80.6	81.6	82.1	82.1	82.2	82.4	82.4	82.4
≥ 1500	67.7	74.4	77.5	79.1	80.5	80.8	82.9	83.3	83.4	84.5	85.2	85.2	85.3	85.5	85.6	85.6
≥ 1200	68.5	75.5	79.3	81.2	82.5	83.0	85.6	86.0	86.1	87.6	88.6	88.6	88.7	88.8	89.0	89.0
≥ 1000	69.4	76.9	80.6	82.6	84.3	84.8	87.3	87.8	88.0	89.9	91.0	91.0	91.1	91.3	91.4	91.4
≥ 900	69.7	77.8	81.6	83.6	85.2	85.7	88.4	89.1	89.4	91.3	92.3	92.3	92.7	92.9	93.0	93.0
≥ 800	70.3	78.6	82.4	84.5	86.4	87.1	89.9	90.6	90.8	93.3	94.3	94.3	94.8	95.0	95.2	95.2
≥ 700	70.5	79.9	82.6	84.8	86.7	87.3	90.3	91.1	91.5	94.2	95.6	95.6	96.0	96.2	96.4	96.4
≥ 600	70.9	79.3	83.0	85.3	87.2	87.9	90.8	91.7	92.1	94.8	96.1	96.1	96.6	96.9	97.0	97.0
≥ 500	70.9	79.3	83.0	85.3	87.2	87.9	90.8	91.8	92.2	95.0	96.4	96.4	97.0	97.3	97.4	97.4
≥ 400	70.9	79.3	83.0	85.6	87.5	88.2	91.1	92.1	92.5	95.3	96.6	96.6	97.3	97.6	97.7	97.7
≥ 300	70.9	79.3	83.0	85.6	87.5	88.2	91.1	92.1	92.5	95.4	96.9	96.9	97.6	97.8	98.0	98.0
≥ 200	70.9	79.3	83.0	85.6	87.5	88.2	91.1	92.1	92.5	95.4	97.4	97.4	98.1	98.4	98.5	98.5
≥ 100	70.9	79.3	83.0	85.6	87.5	88.2	91.1	92.1	92.5	95.4	97.4	97.4	98.1	98.4	98.5	98.5
≥ 0	70.9	79.3	83.0	85.6	87.5	88.2	91.1	92.1	92.5	95.4	97.4	97.4	98.1	98.4	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS 743

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	49.1	50.5	50.9	50.9	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 20000	51.3	53.0	53.5	53.5	53.5	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 18000	51.3	53.0	53.5	53.5	53.5	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 16000	51.5	53.1	53.6	53.6	53.6	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000	51.9	53.5	54.0	54.0	54.0	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 12000	52.6	54.3	54.8	54.8	54.8	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 10000	54.3	56.2	56.9	56.9	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 9000	55.1	57.0	57.7	57.7	58.1	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 8000	56.3	58.2	58.9	58.9	59.3	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 7000	57.9	61.2	62.1	62.2	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 6000	60.1	63.4	64.5	64.7	65.2	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 5000	60.3	63.8	65.1	65.7	66.3	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	61.3	64.8	66.3	66.9	67.5	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 4000	62.5	66.5	68.0	68.8	69.4	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 3500	63.7	67.9	69.8	70.6	71.1	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 3000	65.3	69.8	71.9	72.7	73.3	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 2500	66.1	70.8	73.0	74.1	74.9	75.0	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 2000	69.2	74.6	76.7	77.8	79.0	79.2	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 1800	69.8	75.3	77.4	78.6	80.0	80.1	81.0	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 1500	70.3	77.2	79.6	81.2	82.7	82.8	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 1200	71.8	78.9	81.3	83.3	85.3	85.5	87.1	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1000	73.7	81.3	83.7	86.2	88.2	88.3	90.3	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 900	74.3	82.1	84.5	87.0	89.0	89.1	91.3	91.7	91.7	92.1	92.2	92.2	92.2	92.2	92.2	92.2
≥ 800	74.7	82.8	85.2	87.6	89.7	89.8	91.9	92.3	92.3	92.9	93.0	93.1	93.1	93.1	93.1	93.1
≥ 700	75.3	83.6	86.2	88.7	91.0	91.1	93.4	93.8	93.8	94.6	94.8	94.9	94.9	94.9	94.9	94.9
≥ 600	75.3	83.9	86.4	89.0	91.4	91.5	93.8	94.4	94.4	95.7	96.0	96.1	96.2	96.2	96.2	96.2
≥ 500	75.4	84.0	86.6	89.1	91.5	91.7	94.1	94.6	94.6	96.0	96.2	96.4	96.5	96.6	96.6	96.6
≥ 400	75.4	84.0	86.6	89.1	91.5	91.7	94.2	95.0	95.0	96.4	96.6	96.8	96.9	97.0	97.0	97.0
≥ 300	75.4	84.0	86.6	89.2	91.7	91.8	94.6	95.6	95.7	97.0	97.4	97.6	97.7	97.8	97.8	97.8
≥ 200	75.4	84.0	86.6	89.2	91.7	91.8	94.6	95.7	95.8	97.2	97.8	98.0	98.1	98.3	98.4	98.4
≥ 100	75.4	84.0	86.6	89.2	91.7	91.8	94.6	95.7	95.8	97.2	97.8	98.0	98.1	98.3	98.4	98.4
≥ 0	75.4	84.0	86.6	89.2	91.7	91.8	94.6	95.7	95.8	97.2	97.8	98.0	98.1	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	48.9	51.8	51.3	51.6	51.9	52.2	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 20000	51.1	53.0	53.6	53.9	54.2	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	51.1	53.0	53.6	53.9	54.2	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000	51.2	53.1	53.8	54.0	54.3	54.6	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 14000	52.2	54.3	54.7	55.0	55.2	55.5	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 12000	53.6	55.6	56.3	56.6	56.9	57.1	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 10000	55.6	57.5	58.3	58.7	59.0	59.3	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 9000	55.9	57.9	58.7	59.1	59.4	59.7	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 8000	56.7	58.7	59.5	59.9	60.2	60.5	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 7000	57.4	59.7	60.6	61.0	61.3	61.6	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 6000	58.1	61.4	62.4	62.9	63.2	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 5000	58.6	62.6	63.7	64.5	64.8	65.1	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 4500	59.4	63.7	64.8	65.7	66.0	66.3	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4000	60.2	64.7	65.9	66.8	67.2	67.5	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 3500	61.2	65.7	66.9	67.9	68.4	68.7	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 3000	63.6	68.3	69.9	71.0	71.5	71.8	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 2500	65.3	70.8	72.7	73.9	74.7	75.0	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2000	67.6	73.4	75.4	77.0	77.8	78.1	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 1800	68.4	74.5	76.5	78.2	79.0	79.3	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 1500	70.4	77.4	79.8	82.0	83.1	83.3	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 1200	71.9	79.3	81.9	84.3	85.5	86.2	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1000	73.3	80.8	83.6	86.4	87.9	88.6	89.2	89.5	89.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8
≥ 900	73.8	81.5	84.3	87.1	89.0	89.7	90.5	91.1	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4
≥ 800	73.8	81.9	84.7	87.5	89.5	90.3	91.1	91.8	91.8	92.1	92.2	92.2	92.2	92.2	92.2	92.2
≥ 700	74.1	82.5	85.3	88.2	90.3	91.1	91.9	92.6	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0
≥ 600	74.1	82.5	85.3	88.2	90.5	91.3	92.1	92.9	92.9	93.3	93.5	93.5	93.7	93.7	93.7	93.7
≥ 500	74.3	82.8	85.6	88.6	91.1	91.9	92.9	94.1	94.1	94.8	95.4	95.4	95.7	95.7	95.7	95.7
≥ 400	74.5	83.1	85.9	88.8	91.4	92.2	93.1	94.5	94.5	95.2	95.8	95.8	96.1	96.1	96.1	96.1
≥ 300	74.5	83.1	85.9	89.2	91.9	92.7	93.7	95.0	95.0	95.7	96.5	96.5	96.8	96.8	96.8	96.8
≥ 200	74.5	83.1	85.9	89.2	92.1	92.9	93.8	95.3	95.3	96.0	96.8	96.8	97.0	97.2	97.3	97.3
≥ 100	74.5	83.1	85.9	89.2	92.1	92.9	93.8	95.3	95.3	96.0	96.8	96.8	97.0	97.3	97.8	98.4
≥ 0	74.5	83.1	85.9	89.2	92.1	92.9	93.8	95.3	95.3	96.0	96.8	96.8	97.2	97.7	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 744

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

342

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBLE STATUTE MILES															
	≥ 0	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15
NO CEILING ≥ 20000	47.6 48.1	47.9 50.9	48.9 52.1	49.5 52.8	49.8 53.1	50.0 53.3	50.4 53.7	50.6 53.9	50.7 53.9	50.8 54.2	50.9 54.4	50.9 54.4	51.0 54.5	51.0 54.7	51.2 54.8	51.2 54.9
≥ 18000 N 6000	48.3 48.3	51.1 51.1	52.2 52.3	52.9 53.0	53.3 53.3	53.5 53.5	53.8 53.9	54.1 54.1	54.1 54.1	54.3 54.4	54.5 54.6	54.6 54.6	54.7 54.8	54.9 54.9	55.0 55.0	55.1 55.1
≥ 14000 N 2000	48.8 49.8	51.8 52.9	52.9 54.0	53.6 54.7	53.9 55.1	54.2 55.3	54.5 55.6	54.7 55.9	54.7 55.9	55.0 56.2	55.2 56.4	55.2 56.4	55.4 56.6	55.5 56.7	55.7 56.8	55.7 56.9
≥ 10000 N 9000	49.1 52.3	54.7 55.7	56.1 57.0	56.8 57.8	57.2 58.3	57.5 58.6	57.8 58.9	58.1 59.2	58.1 59.2	58.4 59.5	58.6 59.7	58.6 59.7	58.8 59.7	58.9 59.9	59.1 60.0	59.1 60.2
≥ 8000 N 7000	53.3 54.7	56.8 58.5	58.1 59.9	58.9 60.8	59.4 61.3	59.7 61.5	60.0 61.9	60.3 62.2	60.3 62.2	60.6 62.6	60.9 62.9	60.9 62.9	61.1 63.0	61.2 63.2	61.3 63.3	61.4 63.4
≥ 6000 N 5000	56.1 56.3	60.2 61.3	61.7 63.1	62.7 64.3	63.3 64.8	63.5 65.1	64.0 65.6	64.2 65.8	64.2 65.8	64.7 66.3	64.9 66.5	64.9 66.6	65.1 66.7	65.3 66.9	65.4 67.0	65.4 67.1
≥ 4500 N 4000	57.0 58.8	62.2 63.6	64.0 65.6	65.2 67.0	65.8 67.7	66.1 67.9	66.6 68.5	66.9 68.8	66.9 68.8	67.3 69.3	67.6 69.6	67.6 69.6	67.8 69.8	67.9 70.0	68.1 70.1	68.1 70.2
≥ 3500 N 3000	59.5 61.3	64.5 66.6	66.6 68.9	67.9 70.3	68.8 71.2	69.1 71.5	69.6 72.2	69.9 72.5	70.0 72.5	70.4 73.0	70.7 73.3	70.8 73.3	71.0 73.5	71.1 73.7	71.3 73.9	71.3 73.9
≥ 2500 N 2000	62.7 65.2	68.7 71.4	71.3 74.1	72.9 75.9	73.9 77.0	74.3 77.4	75.1 78.4	75.4 78.7	75.4 78.8	76.1 79.4	76.4 79.7	76.4 79.7	76.6 79.9	76.7 80.1	76.9 80.2	76.9 80.3
≥ 1800 N 1500	65.8 67.1	72.1 73.9	74.9 76.9	76.8 79.1	78.0 80.5	78.5 81.0	79.5 82.2	79.8 82.6	79.9 82.7	80.5 83.3	80.8 83.7	80.8 83.7	81.0 83.9	81.2 84.1	81.3 84.3	81.4 84.3
≥ 1200 N 1000	68.6 69.6	75.9 77.3	79.0 80.6	81.6 83.3	83.0 84.9	83.6 85.6	85.1 87.2	85.6 87.9	85.6 87.9	86.4 88.9	86.8 89.4	86.8 89.4	87.0 89.6	87.2 89.8	87.4 90.0	87.4 90.1
≥ 900 N 800	69.9 70.2	77.9 78.3	81.1 81.5	84.0 84.4	85.6 86.2	86.4 87.0	88.1 88.7	88.9 89.5	89.0 89.6	90.0 90.9	90.5 91.4	90.5 91.4	90.8 91.7	91.0 91.9	91.2 92.1	91.2 92.2
≥ 700 N 600	70.4 70.7	78.7 79.2	82.1 82.6	85.0 85.5	86.9 87.5	87.7 88.4	89.6 90.3	90.5 91.3	90.6 91.4	91.9 92.9	92.5 93.6	92.6 93.6	93.0 94.1	93.2 94.3	93.4 94.6	93.4 94.7
≥ 500 N 400	70.9 71.3	79.4 79.5	82.9 83.0	85.9 86.1	87.9 88.2	88.8 89.1	90.8 91.1	91.9 92.3	92.0 92.4	93.6 94.1	94.4 94.9	94.5 94.9	95.0 95.6	95.3 96.0	95.7 96.4	95.8 96.5
≥ 300 N 200	71.0 71.0	79.6 79.6	83.1 83.1	86.3 86.4	88.5 88.6	89.5 89.5	91.5 91.6	92.8 92.9	92.9 93.1	94.7 94.9	95.6 96.0	95.7 96.1	96.4 97.0	96.8 97.5	97.3 98.0	97.4 98.2
≥ 100 0	71.0 71.0	79.6 79.6	83.1 83.1	86.4 86.4	88.6 88.6	89.5 89.5	91.6 91.6	92.9 92.9	93.1 93.1	94.9 94.9	96.0 96.0	96.1 96.1	97.2 97.2	97.7 97.7	98.4 98.4	98.8 98.8

TOTAL NUMBER OF OBSERVATIONS 595

2
 SPECIAL CLIMATOLOGY BRANCH
 USFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1000-2200
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	46.4	51.7	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 18000 ≥ 6000	50.6	53.1	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	54.3
≥ 14000 ≥ 2000	50.7	53.2	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.4
≥ 10000 ≥ 9000	51.1	53.5	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.7
≥ 8000 ≥ 7000	52.5	55.5	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.5
≥ 6000 ≥ 5000	54.1	57.4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.7
≥ 4500 ≥ 4000	55.5	58.7	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.5
≥ 3500 ≥ 3000	56.4	59.9	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.7
≥ 2500 ≥ 2000	58.1	61.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.6
≥ 1800 ≥ 1500	59.4	63.4	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.2
≥ 1200 ≥ 1000	60.5	64.6	65.8	66.2	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1
≥ 900 ≥ 800	60.8	65.3	66.7	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	68.0
≥ 700 ≥ 600	62.7	67.7	69.2	69.8	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	71.1
≥ 500 ≥ 400	63.4	69.3	70.8	71.7	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	73.0
≥ 300 ≥ 200	66.4	72.4	74.2	75.2	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	77.0
≥ 180 ≥ 100	69.0	75.7	77.6	78.8	79.8	79.8	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.7
≥ 100 ≥ 0	70.6	77.7	79.9	81.1	82.4	82.4	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.6
≥ 1800 ≥ 1500	71.2	78.5	80.5	81.9	83.2	83.3	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.7
≥ 1200 ≥ 1000	71.8	80.2	82.3	83.9	85.3	85.4	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.7
≥ 900 ≥ 800	72.9	81.7	83.9	85.7	87.0	87.2	88.2	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	89.1
≥ 700 ≥ 600	73.7	82.6	85.1	87.3	89.2	89.5	90.7	91.3	91.3	91.3	91.6	91.7	91.7	91.7	91.7	92.2
≥ 500 ≥ 400	73.9	82.7	85.3	87.9	89.8	90.1	91.3	91.9	91.9	91.9	92.3	92.5	92.5	92.5	92.5	92.9
≥ 300 ≥ 200	74.1	83.0	85.7	88.5	90.4	90.7	91.9	92.8	92.8	92.8	93.2	93.7	93.7	93.7	93.7	94.1
≥ 180 ≥ 100	74.2	83.2	86.0	88.8	90.9	91.2	92.8	93.7	93.7	93.7	94.1	94.5	94.5	94.5	94.5	95.0
≥ 100 ≥ 0	74.6	83.6	86.6	89.7	91.7	92.0	93.7	94.5	94.5	94.5	95.0	95.4	95.4	95.4	95.4	95.7
≥ 1800 ≥ 1500	74.8	84.1	87.0	90.3	92.5	92.8	95.0	96.0	96.0	96.0	96.5	96.9	96.9	97.3	97.3	97.8
≥ 1200 ≥ 1000	74.8	84.1	87.0	90.3	92.8	93.4	95.6	96.6	96.6	96.6	97.1	97.5	97.5	97.9	97.9	98.4
≥ 900 ≥ 800	74.8	84.1	87.0	90.7	93.5	94.1	96.3	97.3	97.3	97.3	97.9	98.5	98.5	99.0	99.0	99.4
≥ 700 ≥ 600	74.8	84.1	87.0	90.7	93.5	94.1	96.3	97.3	97.3	97.3	97.9	98.5	98.5	99.0	99.0	99.6
≥ 500 ≥ 400	74.8	84.2	87.2	91.0	93.8	94.4	96.6	97.6	97.6	97.6	98.2	98.8	98.8	99.3	99.3	100.0
≥ 300 ≥ 200	74.8	84.2	87.2	91.0	93.8	94.4	96.6	97.6	97.6	97.6	98.2	98.8	98.8	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 674

LOCAL CLIMATOLOGY BRANCH
 AFETAC
 401 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

3000-0500
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅓	≥¼	≥⅓	≥⅓
NO CEILING	44.6	47.2	47.3	47.5	47.5	47.5	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 2000	47.6	50.4	50.9	51.0	51.0	51.0	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 1800	47.8	50.6	51.1	51.2	51.2	51.2	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 1600	47.8	50.6	51.1	51.2	51.2	51.2	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 1400	48.8	51.6	52.1	52.2	52.2	52.2	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 1200	49.6	52.5	52.9	53.1	53.1	53.1	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 1000	51.5	54.6	55.2	55.3	55.3	55.3	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 900	53.9	56.6	57.2	57.5	57.5	57.5	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 800	54.0	57.1	57.7	58.0	58.0	58.0	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 700	56.6	60.2	60.9	61.4	61.4	61.4	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 600	58.7	61.9	62.7	63.1	63.1	63.1	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 500	59.1	63.3	64.2	64.7	64.7	64.7	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 450	60.0	64.5	65.3	65.9	65.9	65.9	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 400	61.8	67.1	68.0	68.7	68.9	69.2	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 350	62.3	68.3	69.2	69.9	70.1	70.4	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 300	64.2	70.5	71.5	72.3	72.4	72.7	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 250	67.6	74.5	75.7	76.7	76.8	77.3	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 200	69.6	76.7	78.0	79.2	79.4	79.9	81.0	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 1800	69.9	77.1	78.6	79.8	79.9	80.5	81.6	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 1500	70.8	78.5	80.2	81.4	81.7	82.4	83.9	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1200	71.4	79.6	81.6	83.2	83.5	84.2	85.7	86.3	86.4	86.7	86.9	86.9	86.9	86.9	86.9	86.9
≥ 1000	71.5	80.2	82.6	85.0	85.4	86.1	88.3	89.1	89.2	89.5	90.0	90.0	90.0	90.0	90.0	90.0
≥ 900	71.8	81.1	83.5	86.1	86.7	87.5	89.7	90.4	90.6	90.9	91.3	91.3	91.3	91.3	91.3	91.3
≥ 800	72.6	81.9	84.2	87.0	87.8	88.5	90.9	91.7	91.9	92.2	92.6	92.6	92.6	92.6	92.6	92.6
≥ 700	72.6	82.0	84.4	87.3	88.6	89.4	91.9	92.8	92.9	93.2	93.7	93.7	93.7	93.7	93.7	93.7
≥ 600	72.6	82.3	84.7	87.8	89.1	89.8	92.3	93.2	93.4	93.7	94.1	94.1	94.1	94.1	94.1	94.1
≥ 500	72.6	82.6	85.0	88.2	89.5	90.3	92.9	93.8	94.1	94.4	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	72.7	82.7	85.5	88.8	90.1	90.9	93.5	94.4	94.7	95.0	95.4	95.4	95.4	95.4	95.4	95.4
≥ 300	72.7	82.7	85.5	88.9	90.3	91.3	94.0	94.8	95.1	95.6	96.2	96.2	96.2	96.2	96.2	96.2
≥ 200	72.7	82.7	85.5	88.9	90.3	91.4	94.1	95.4	95.7	96.2	96.8	96.8	96.8	96.8	96.8	96.8
≥ 100	72.9	82.9	85.7	89.1	90.4	91.6	94.2	95.6	95.9	96.3	96.9	96.9	96.9	96.9	96.9	96.9
≥ 0	72.7	82.9	85.7	89.1	90.4	91.6	94.2	95.6	95.9	96.3	96.9	96.9	96.9	96.9	96.9	96.9

TOTAL NUMBER OF OBSERVATIONS 675

CLIMATE CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

660-0600
HOURS (L.G.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	41.1	43.4	43.5	42.8	44.1	44.1	44.5	44.7	44.7	44.8	44.8	44.8	45.3	45.3	45.3	45.3
≥ 20000	43.2	46.2	46.2	46.5	46.9	46.9	47.3	47.5	47.5	47.6	47.8	47.8	47.9	47.9	47.9	47.9
≥ 18000	43.5	46.3	46.5	46.8	47.2	47.2	47.6	47.8	47.8	47.9	48.1	48.1	48.2	48.2	48.2	48.2
≥ 16000	43.5	46.3	46.5	46.8	47.2	47.2	47.6	47.8	47.8	47.9	48.1	48.1	48.2	48.2	48.2	48.2
≥ 14000	45.1	47.9	48.1	48.4	48.8	48.8	49.3	49.4	49.4	49.6	49.7	49.7	49.9	49.9	49.9	49.9
≥ 12000	46.5	49.6	49.9	50.3	50.7	50.7	51.2	51.3	51.3	51.5	51.6	51.6	51.8	51.8	51.8	51.8
≥ 10000	49.7	53.4	53.7	54.1	54.6	54.6	55.0	55.2	55.2	55.3	55.5	55.5	55.6	55.6	55.6	55.6
≥ 9000	51.0	54.9	55.2	55.6	56.0	56.0	56.5	56.6	56.6	56.8	56.9	56.9	57.1	57.1	57.1	57.1
≥ 8000	52.4	56.6	56.9	57.4	57.8	57.8	58.4	58.6	58.6	58.7	58.8	58.8	59.0	59.0	59.0	59.0
≥ 7000	55.6	59.6	60.0	60.8	61.2	61.2	61.8	61.9	61.9	62.1	62.2	62.2	62.4	62.4	62.4	62.4
≥ 6000	56.5	60.8	61.2	61.9	62.4	62.4	63.1	63.3	63.3	63.6	63.7	63.7	63.9	63.9	63.9	63.9
≥ 5000	58.1	62.5	63.1	63.7	64.2	64.2	64.9	65.0	65.0	65.3	65.5	65.5	65.6	65.6	65.6	65.6
≥ 4500	58.7	63.4	64.1	64.7	65.2	65.2	65.9	66.1	66.1	66.4	66.5	66.5	66.7	66.7	66.7	66.7
≥ 4000	59.6	64.5	65.1	65.8	66.5	66.7	67.4	67.6	67.6	67.8	68.0	68.0	68.1	68.1	68.1	68.1
≥ 3500	60.5	65.8	66.4	67.1	67.8	68.1	68.9	69.0	69.0	69.3	69.5	69.5	69.6	69.6	69.6	69.6
≥ 3000	63.0	69.0	69.9	70.9	71.8	72.3	73.0	73.2	73.2	73.5	73.6	73.6	73.7	73.7	73.7	73.7
≥ 2500	66.1	72.7	73.9	74.9	76.1	76.5	77.3	77.4	77.4	77.7	77.9	77.9	78.0	78.0	78.0	78.0
≥ 2000	68.1	75.5	77.0	78.2	79.5	79.9	81.0	81.1	81.1	81.4	81.6	81.6	81.7	81.7	81.7	81.7
≥ 1800	69.7	76.8	78.3	79.6	81.0	81.4	82.6	82.7	82.7	83.0	83.2	83.2	83.3	83.3	83.3	83.3
≥ 1500	69.9	77.9	79.6	81.0	82.3	83.0	84.4	84.7	84.7	85.0	85.3	85.3	85.4	85.4	85.4	85.4
≥ 1200	70.6	78.9	80.8	82.2	83.6	84.4	85.8	86.3	86.3	86.7	87.0	87.0	87.2	87.2	87.2	87.2
≥ 1000	70.9	79.8	81.7	83.3	85.0	85.8	87.8	88.6	88.6	89.4	90.0	90.0	90.4	90.4	90.4	90.4
≥ 900	71.1	80.1	82.0	84.1	85.7	86.6	88.6	89.7	89.7	90.4	91.0	91.0	91.4	91.4	91.4	91.4
≥ 800	71.2	80.4	82.3	84.4	86.0	86.9	88.9	90.0	90.0	90.7	91.3	91.3	91.7	91.7	91.7	91.7
≥ 700	71.4	81.1	83.2	85.5	87.2	88.2	90.6	91.6	91.6	92.3	92.9	92.9	93.5	93.7	93.8	93.8
≥ 600	71.4	81.4	83.5	85.8	87.9	88.9	91.3	92.5	92.5	93.2	94.1	94.1	94.7	94.8	95.0	95.0
≥ 500	71.4	81.6	83.8	86.1	88.3	89.5	91.9	93.2	93.2	94.0	94.8	94.8	95.4	95.6	95.7	95.7
≥ 400	71.4	81.6	83.9	86.3	88.5	90.0	92.5	93.8	93.8	94.5	95.4	95.4	96.0	96.2	96.5	96.5
≥ 300	71.5	81.7	84.1	86.4	88.8	90.6	93.2	94.5	94.5	95.4	96.3	96.3	96.9	97.2	97.6	97.8
≥ 200	71.5	81.7	84.1	86.4	88.8	90.7	93.4	95.3	95.3	96.5	97.3	97.3	97.9	98.2	99.1	99.6
≥ 100	71.5	81.7	84.1	86.4	88.8	90.7	93.4	95.3	95.3	96.5	97.3	97.3	97.9	98.2	99.3	99.7
≥ 0	71.5	81.7	84.1	86.4	88.8	90.7	93.4	95.3	95.3	96.5	97.3	97.3	97.9	98.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 67

2
CLIMATE CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	44.7	47.3	47.3	47.9	48.5	49.0	49.6	49.6	49.6	50.4	50.4	50.4	50.7	50.7	50.7	50.9
≥ 20000	49.9	53.4	53.4	54.0	54.7	55.3	56.2	56.2	56.2	57.1	57.1	57.1	57.5	57.5	57.5	57.7
≥ 18000	50.7	53.5	53.5	54.1	54.9	55.5	56.3	56.3	56.3	57.2	57.2	57.2	57.7	57.7	57.7	57.9
≥ 16000	50.1	53.7	53.7	54.3	55.0	55.6	56.5	56.5	56.5	57.4	57.4	57.4	57.8	57.8	57.8	58.0
≥ 14000	50.9	54.4	54.4	55.0	55.8	56.3	57.2	57.2	57.2	58.1	58.1	58.1	58.6	58.6	58.6	58.7
≥ 12000	52.4	56.0	56.0	56.8	57.5	58.1	59.0	59.0	59.0	59.9	59.9	59.9	60.3	60.3	60.3	60.5
≥ 10000	52.9	57.1	57.1	57.8	58.6	59.4	60.5	60.5	60.5	61.4	61.5	61.5	61.9	61.9	61.9	62.1
≥ 9000	53.7	58.1	58.3	59.0	59.7	60.6	61.7	61.7	61.7	62.5	62.7	62.7	63.1	63.1	63.1	63.3
≥ 8000	54.7	59.3	59.4	60.2	60.9	61.8	62.8	62.8	62.8	63.7	63.9	63.9	64.3	64.3	64.3	64.5
≥ 7000	56.6	61.4	61.5	62.4	63.4	64.5	65.8	65.8	65.8	66.7	66.8	66.8	67.4	67.4	67.4	67.6
≥ 6000	57.4	62.1	62.2	63.3	64.3	65.5	66.8	66.8	66.8	67.7	67.8	67.8	68.4	68.4	68.4	68.6
≥ 5000	57.9	62.5	62.8	63.9	65.0	66.2	67.7	67.7	67.7	68.6	68.7	68.7	69.3	69.3	69.3	69.5
≥ 4500	57.9	62.5	63.7	64.0	65.2	66.4	67.8	68.0	68.0	68.9	69.0	69.0	69.6	69.6	69.6	69.8
≥ 4000	59.3	64.0	64.7	65.8	67.1	68.3	69.8	69.9	69.9	70.8	70.9	70.9	71.5	71.5	71.5	71.7
≥ 3500	60.8	65.6	66.7	68.1	69.5	70.6	72.6	72.7	72.7	73.6	74.0	74.0	74.6	74.6	74.6	74.8
≥ 3000	62.4	68.1	69.3	70.9	72.4	73.7	76.0	76.3	76.3	77.1	77.7	77.7	78.3	78.3	78.3	78.5
≥ 2500	63.7	69.8	71.1	72.7	74.5	76.0	78.2	78.9	78.9	79.8	80.4	80.4	81.0	81.0	81.0	81.1
≥ 2000	65.3	72.4	73.7	75.5	77.7	79.4	81.6	82.4	82.4	83.3	83.9	83.9	84.5	84.5	84.5	84.7
≥ 1800	66.2	73.5	74.8	76.5	78.9	80.7	83.2	84.1	84.1	85.0	85.5	85.5	86.1	86.1	86.1	86.3
≥ 1500	67.6	74.9	76.4	78.2	80.5	82.3	85.3	86.3	86.3	87.5	88.1	88.1	88.6	88.6	88.6	88.8
≥ 1200	69.3	75.8	77.3	79.2	81.6	83.3	86.4	87.8	87.9	89.4	90.3	90.3	90.9	90.9	90.9	91.0
≥ 1000	68.7	76.3	78.0	80.2	82.9	84.8	88.1	89.5	89.8	91.3	92.2	92.2	92.9	92.9	92.9	93.1
≥ 900	69.2	76.7	78.5	80.7	83.3	85.3	88.8	90.3	90.7	92.3	93.2	93.2	94.0	94.0	94.0	94.1
≥ 800	69.8	77.3	79.1	81.4	84.1	86.0	89.5	91.0	91.6	93.2	94.4	94.4	95.1	95.1	95.1	95.3
≥ 700	69.8	77.3	79.1	81.4	84.1	86.0	89.7	91.2	91.7	93.5	94.7	94.8	95.7	95.7	95.7	95.9
≥ 600	69.9	77.6	79.4	81.7	84.4	86.3	90.1	91.6	92.3	94.2	95.4	95.6	96.5	96.5	96.5	96.8
≥ 500	69.9	77.9	79.6	82.0	84.7	86.7	90.6	92.0	92.8	95.0	96.2	96.5	97.3	97.3	97.3	97.6
≥ 400	69.9	77.9	79.6	82.0	84.7	86.7	90.6	92.0	92.8	95.1	96.3	96.6	97.5	97.5	97.5	97.8
≥ 300	69.9	77.9	79.6	82.0	84.7	86.9	90.7	92.2	92.9	95.4	96.9	97.2	98.4	98.4	98.4	99.0
≥ 200	69.9	77.9	79.6	82.0	84.7	86.9	90.7	92.2	92.9	95.6	97.2	97.5	98.8	98.8	98.8	99.9
≥ 100	69.9	77.9	79.6	82.0	84.7	86.9	90.7	92.2	92.9	95.6	97.2	97.5	98.8	98.8	98.8	100.0
≥ 0	69.9	77.9	79.6	82.0	84.7	86.9	90.7	92.2	92.9	95.6	97.2	97.5	98.8	98.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 675

2
GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	45.3	48.5	50.0	51.3	51.6	51.8	52.5	52.7	52.7	52.9	53.1	53.1	53.2	53.2	53.4	53.4
≥ 20000	52.7	56.2	58.1	59.6	60.0	60.2	60.9	61.1	61.1	61.4	61.5	61.5	61.9	61.9	62.2	62.2
≥ 18000	52.7	56.2	58.1	59.6	60.0	60.2	60.9	61.1	61.1	61.4	61.5	61.5	61.9	61.9	62.2	62.2
≥ 16000	52.7	56.2	59.3	59.7	60.2	60.3	61.1	61.2	61.2	61.5	61.7	61.7	62.1	62.1	62.4	62.4
≥ 14000	53.7	57.1	59.3	60.8	61.4	61.5	62.2	62.4	62.4	62.7	62.8	62.8	63.3	63.3	63.6	63.6
≥ 12000	55.3	58.7	60.9	62.4	63.0	63.1	63.9	64.0	64.0	64.3	64.5	64.5	64.9	64.9	65.2	65.2
≥ 10000	55.6	59.4	61.7	63.1	63.7	63.9	64.6	64.9	64.9	65.2	65.3	65.3	65.8	65.8	66.1	66.1
≥ 9000	55.9	59.7	62.2	63.7	64.5	64.6	65.3	65.6	65.6	65.9	66.1	66.1	66.5	66.5	66.8	66.8
≥ 8000	56.3	60.3	62.8	64.3	65.0	65.2	65.9	66.2	66.2	66.5	66.7	66.7	67.1	67.1	67.4	67.4
≥ 7000	57.7	62.1	64.6	66.1	66.8	67.0	67.7	68.0	68.0	68.3	68.4	68.4	68.9	68.9	69.2	69.2
≥ 6000	57.8	62.4	64.9	66.4	67.1	67.4	68.1	68.6	68.6	68.9	69.0	69.0	69.5	69.5	69.8	69.8
≥ 5000	58.6	63.1	65.9	67.4	68.1	68.6	69.3	69.8	69.8	70.1	70.2	70.2	70.6	70.6	70.9	70.9
≥ 4500	59.1	63.9	66.7	68.1	69.2	69.8	70.5	70.9	70.9	71.2	71.4	71.4	71.8	71.8	72.1	72.1
≥ 4000	59.3	64.6	67.7	69.2	70.5	71.2	72.0	72.4	72.4	72.7	73.0	73.0	73.5	73.5	73.7	73.7
≥ 3500	59.7	65.3	68.4	69.9	71.2	72.1	72.9	73.3	73.3	73.6	73.9	73.9	74.3	74.3	74.6	74.6
≥ 3000	61.1	66.7	70.1	71.5	73.2	74.2	74.9	75.5	75.5	75.8	76.1	76.3	76.7	76.6	77.1	77.1
≥ 2500	61.9	68.3	71.7	73.3	75.2	76.3	77.3	78.0	78.0	78.5	78.8	78.9	79.4	79.5	79.8	79.8
≥ 2000	64.5	71.5	75.1	77.0	79.1	80.4	81.4	82.2	82.2	82.6	83.0	83.2	83.6	83.8	84.1	84.1
≥ 1800	65.5	73.6	77.1	79.1	81.1	82.7	84.1	84.8	84.8	85.3	85.7	85.8	86.3	86.4	86.7	86.7
≥ 1500	66.5	75.4	79.2	81.6	83.9	85.7	87.2	87.9	87.9	88.3	89.1	89.2	89.7	89.8	90.1	90.1
≥ 1200	67.6	76.8	80.7	83.2	85.8	87.6	89.2	90.0	90.0	90.4	91.2	91.3	92.0	92.2	92.5	92.5
≥ 1000	67.8	77.6	81.4	84.2	87.0	88.9	90.7	91.4	91.6	92.3	93.1	93.2	94.1	94.2	94.7	94.7
≥ 900	68.6	78.5	82.4	85.7	88.5	90.4	92.2	92.9	93.1	94.2	95.3	95.4	96.3	96.5	96.9	96.9
≥ 800	68.7	78.8	82.7	86.1	88.9	90.9	92.6	93.4	93.5	94.8	96.0	96.3	97.2	97.3	97.8	97.8
≥ 700	69.1	79.2	83.2	86.6	89.4	91.3	93.1	93.8	94.0	95.3	96.5	96.8	97.8	97.9	98.4	98.4
≥ 600	69.2	79.4	83.3	86.7	89.5	91.4	93.4	94.1	94.2	95.6	96.8	97.1	98.1	98.2	98.7	98.7
≥ 500	69.2	79.4	83.3	86.7	89.7	91.7	93.8	94.5	94.7	96.0	97.2	97.5	98.5	98.7	99.1	99.1
≥ 400	69.2	79.4	83.3	86.7	89.7	91.7	94.0	94.7	94.8	96.2	97.3	97.6	98.7	98.8	99.3	99.3
≥ 300	69.2	79.4	83.3	86.7	89.7	91.7	94.0	94.7	94.8	96.2	97.3	97.6	98.7	98.8	99.3	99.7
≥ 200	69.2	79.4	83.3	86.7	89.7	91.7	94.0	94.7	94.8	96.2	97.3	97.6	98.7	98.8	99.4	100.0
≥ 100	69.2	79.4	83.3	86.7	89.7	91.7	94.0	94.7	94.8	96.2	97.3	97.6	98.7	98.8	99.4	100.0
≥ 0	69.2	79.4	83.3	86.7	89.7	91.7	94.0	94.7	94.8	96.2	97.3	97.6	98.7	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 674

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 514 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	42.9	45.4	45.7	46.6	46.8	46.8	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.9	47.9
≥ 25000	50.1	53.7	54.4	55.3	55.6	55.6	56.8	56.8	56.8	56.8	56.8	56.8	57.2	57.4	57.8	57.8
≥ 18000	50.4	54.4	55.2	56.0	56.3	56.3	57.5	57.5	57.5	57.5	57.5	57.5	58.0	58.1	58.6	58.6
≥ 16000	50.7	54.7	55.5	56.3	56.6	56.6	57.8	57.8	57.8	57.8	57.8	57.8	58.3	58.4	58.8	58.8
≥ 14000	51.6	55.6	56.3	57.2	57.5	57.5	58.8	58.8	58.8	58.8	58.8	58.8	59.3	59.4	59.9	59.9
≥ 12000	53.7	58.1	59.0	60.0	60.3	60.3	61.7	61.7	61.7	61.7	61.7	61.7	62.1	62.2	62.7	62.7
≥ 10000	55.3	60.6	61.5	62.5	62.8	63.0	64.3	64.3	64.3	64.3	64.3	64.3	64.7	64.9	65.3	65.3
≥ 9000	55.9	60.8	61.8	62.8	63.3	63.4	65.0	65.0	65.0	65.0	65.0	65.0	65.5	65.6	66.1	66.1
≥ 8000	56.7	61.9	63.0	64.0	64.5	64.6	66.2	66.2	66.2	66.2	66.2	66.2	66.7	66.8	67.3	67.3
≥ 7000	58.7	64.0	65.0	66.1	66.5	66.7	68.3	68.3	68.3	68.3	68.3	68.3	68.7	68.9	69.3	69.3
≥ 6000	59.3	64.6	65.6	66.7	67.1	67.3	68.9	69.0	69.0	69.0	69.0	69.0	69.5	69.6	70.1	70.1
≥ 5000	59.7	65.2	66.2	67.3	67.7	67.8	69.6	69.8	69.8	69.9	69.9	69.9	70.4	70.5	70.9	70.9
≥ 4500	60.6	66.2	67.4	68.4	68.9	69.0	70.8	71.1	71.1	71.2	71.2	71.2	71.7	71.8	72.3	72.3
≥ 4000	60.8	67.0	68.1	69.2	69.8	69.9	71.7	72.0	72.0	72.3	72.4	72.4	72.9	73.0	73.5	73.5
≥ 3500	61.5	67.7	68.9	70.1	70.6	70.8	72.7	73.2	73.2	73.5	73.6	73.6	74.0	74.2	74.6	74.6
≥ 3000	62.7	69.3	70.5	71.7	72.4	72.6	74.5	74.9	74.9	75.4	75.5	75.5	76.0	76.1	76.5	76.5
≥ 2500	64.7	71.7	72.9	74.2	75.2	75.7	77.7	78.3	78.3	78.9	79.2	79.2	79.6	79.8	80.2	80.2
≥ 2000	68.0	75.4	76.7	78.5	79.5	80.1	82.2	82.9	82.9	83.8	84.1	84.1	84.5	84.7	85.1	85.1
≥ 1800	69.0	76.8	78.2	79.9	81.0	81.6	83.6	84.5	84.5	85.4	85.7	85.7	86.1	86.3	86.7	86.7
≥ 1500	69.9	79.2	80.7	82.6	84.1	84.7	86.9	87.8	87.8	88.9	89.5	89.5	90.0	90.1	90.6	90.6
≥ 1200	70.4	80.4	81.9	83.9	86.0	86.7	89.1	90.0	90.0	91.2	91.9	91.9	92.3	92.5	92.9	92.9
≥ 1000	71.4	81.6	83.0	85.3	87.5	88.2	90.9	91.7	91.7	93.1	94.0	94.0	94.5	94.7	95.1	95.1
≥ 900	71.4	82.2	83.6	85.8	88.2	88.9	91.6	92.5	92.5	93.8	94.7	94.7	95.3	95.4	95.9	95.9
≥ 800	72.1	83.2	84.7	86.9	89.2	90.0	92.6	93.5	93.5	95.0	96.0	96.0	96.8	96.9	97.3	97.3
≥ 700	72.4	83.6	85.1	87.3	89.7	90.4	93.2	94.1	94.1	95.6	96.6	96.6	97.5	97.6	98.2	98.4
≥ 600	72.4	83.6	85.3	87.5	90.0	90.7	93.7	94.7	94.7	96.2	97.2	97.2	98.2	98.4	99.0	99.1
≥ 500	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.6	97.6	98.7	99.0	99.6	99.7
≥ 400	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.6	97.6	98.7	99.0	99.6	99.7
≥ 300	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.9	97.9	99.0	99.3	99.9	100.0
≥ 200	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.9	97.9	99.0	99.3	99.9	100.0
≥ 100	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.9	97.9	99.0	99.3	99.9	100.0
≥ 0	72.4	83.6	85.3	87.6	90.1	91.0	94.1	95.1	95.1	96.6	97.9	97.9	99.0	99.3	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 675

2

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14914
 STATION

HECTOR APT FARGO ND
 STATION NAME

74-81
 YEARS

FEB
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	45.7	47.9	48.4	48.8	48.8	48.8	48.8	48.8	48.8	49.0	49.1	49.1	49.1	49.1	49.1	49.1
≥ 20000	50.6	53.5	54.1	54.6	54.6	54.6	54.6	54.7	54.7	54.9	55.0	55.0	55.0	55.2	55.2	55.2
≥ 18000	51.3	54.3	54.9	55.3	55.3	55.3	55.3	55.5	55.5	55.6	55.6	55.8	55.8	55.9	55.9	55.9
≥ 16000	51.3	54.3	54.9	55.3	55.3	55.3	55.3	55.5	55.5	55.6	55.8	55.8	55.8	55.9	55.9	55.9
≥ 14000	51.3	54.6	55.2	55.6	55.6	55.6	55.6	55.8	55.8	55.9	56.0	56.0	56.0	56.2	56.2	56.2
≥ 12000	53.3	57.2	57.8	58.3	58.3	58.3	58.4	58.6	58.6	58.7	58.8	58.8	58.8	59.0	59.0	59.0
≥ 10000	56.2	59.7	60.3	60.8	60.8	60.8	60.9	61.1	61.1	61.2	61.4	61.4	61.4	61.5	61.5	61.5
≥ 9000	57.1	60.6	61.2	61.7	61.7	61.7	61.8	61.9	61.9	62.1	62.2	62.2	62.2	62.4	62.4	62.4
≥ 8000	57.7	61.4	62.1	62.5	62.7	62.8	63.0	63.1	63.1	63.3	63.4	63.4	63.4	63.6	63.6	63.6
≥ 7000	59.3	63.4	64.2	64.6	64.7	64.9	65.0	65.2	65.2	65.3	65.5	65.5	65.5	65.6	65.6	65.6
≥ 6000	59.6	63.9	64.6	65.0	65.2	65.3	65.5	65.6	65.6	65.8	65.9	65.9	65.9	66.1	66.1	66.1
≥ 5000	60.7	65.3	66.1	66.5	66.7	66.8	67.1	67.3	67.3	67.6	67.7	67.7	67.7	67.8	67.8	67.8
≥ 4500	61.9	66.4	67.4	68.0	68.1	68.3	68.6	68.7	68.7	69.0	69.2	69.2	69.2	69.3	69.3	69.3
≥ 4000	62.4	68.9	70.1	70.6	70.8	71.1	71.4	71.5	71.5	71.8	72.0	72.0	72.0	72.1	72.1	72.1
≥ 3500	64.3	69.8	70.9	71.5	71.8	72.1	72.4	72.6	72.6	72.9	73.0	73.0	73.0	73.2	73.2	73.2
≥ 3000	66.8	72.7	74.2	74.8	75.4	75.7	76.0	76.1	76.1	76.4	76.5	76.5	76.5	76.7	76.7	76.7
≥ 2500	68.9	76.0	77.4	78.0	78.8	79.4	79.6	79.8	79.8	80.1	80.2	80.2	80.2	80.4	80.4	80.4
≥ 2000	70.4	78.8	81.0	81.6	82.3	83.0	83.5	83.6	83.6	84.2	84.4	84.4	84.4	84.5	84.5	84.5
≥ 1800	71.5	79.9	82.7	83.3	84.2	85.0	85.4	85.5	85.5	86.1	86.3	86.3	86.3	86.4	86.4	86.4
≥ 1500	73.0	80.6	86.1	86.7	87.6	88.3	89.1	89.2	89.2	90.0	90.3	90.3	90.3	90.6	90.7	90.7
≥ 1200	73.9	84.7	88.5	89.2	90.4	91.2	91.9	92.2	92.2	93.1	93.4	93.4	93.7	93.8	93.8	93.8
≥ 1000	75.2	86.3	90.1	91.0	92.6	93.4	94.2	94.7	94.7	95.6	96.3	96.3	96.6	96.9	96.9	96.9
≥ 900	75.4	86.7	90.7	91.6	93.2	94.0	94.8	95.4	95.4	96.3	97.1	97.1	97.3	97.6	97.6	97.6
≥ 800	75.5	86.9	90.9	91.7	93.4	94.1	95.1	95.7	95.7	96.6	97.3	97.5	97.8	98.1	98.1	98.1
≥ 700	75.5	87.0	91.2	92.0	93.7	94.4	95.4	96.0	96.0	96.9	97.8	97.9	98.2	98.7	98.7	98.7
≥ 600	75.5	87.0	91.2	92.2	93.8	94.5	95.6	96.2	96.2	97.2	98.1	98.2	98.5	99.0	99.0	99.0
≥ 500	75.5	87.0	91.2	92.2	93.8	94.5	95.6	96.2	96.2	97.2	98.1	98.2	98.5	99.0	99.0	99.0
≥ 400	75.5	87.3	91.4	92.5	94.1	95.0	96.2	96.8	96.8	97.9	98.8	99.0	99.3	99.7	99.7	99.7
≥ 300	75.5	87.3	91.4	92.5	94.1	95.0	96.2	96.8	96.8	98.1	99.1	99.3	99.6	100.0	100.0	100.0
≥ 200	75.5	87.3	91.4	92.5	94.1	95.0	96.2	96.8	96.8	98.1	99.1	99.3	99.6	100.0	100.0	100.0
≥ 100	75.5	87.3	91.4	92.5	94.1	95.0	96.2	96.8	96.8	98.1	99.1	99.3	99.6	100.0	100.0	100.0
≥ 0	75.5	87.3	91.4	92.5	94.1	95.0	96.2	96.8	96.8	98.1	99.1	99.3	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 674

CENTRAL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	49.6	51.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.9	51.9	51.9	51.9	52.1	52.2
≥ 25000	51.6	54.0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.6	54.6	54.6	54.6	54.7	54.9
≥ 18000	52.7	55.0	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.8	55.9
≥ 16000	52.7	55.0	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.8	55.9
≥ 14000	53.2	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.5	56.6
≥ 12000	55.3	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.6	58.7
≥ 10000	57.7	60.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.8	60.8	60.8	60.8	60.9	61.1
≥ 9000	60.0	62.5	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.3	63.4
≥ 8000	60.9	63.0	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.9	63.9	63.9	63.9	64.0	64.2
≥ 7000	61.8	64.6	65.2	65.6	65.6	65.6	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	66.1	66.2
≥ 6000	61.7	65.3	65.9	66.5	66.5	66.5	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	67.0	67.1
≥ 5000	63.1	66.4	67.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.3	68.3	68.3	68.3	68.4	68.6
≥ 4500	64.1	68.3	68.9	69.9	69.9	69.9	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.4	70.5
≥ 4000	65.6	70.2	70.8	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.3	72.3	72.3	72.3	72.4	72.6
≥ 3500	67.6	72.7	73.3	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.9	75.1
≥ 3000	69.9	75.4	76.1	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.6	77.6	77.6	77.6	77.7	77.9
≥ 2500	73.3	79.2	79.9	81.3	81.4	81.4	81.7	81.7	81.7	81.7	81.9	81.9	81.9	81.9	82.0	82.2
≥ 2000	73.7	81.3	82.2	83.6	83.9	83.9	84.2	84.2	84.2	84.2	84.4	84.4	84.4	84.4	84.5	84.7
≥ 1800	74.2	82.0	83.0	84.7	85.0	85.0	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.5	85.7
≥ 1500	74.6	82.9	83.9	85.7	86.1	86.3	86.9	87.0	87.0	87.0	87.3	87.6	87.6	87.6	87.8	87.9
≥ 1200	75.4	85.0	86.4	88.9	89.8	90.0	90.7	90.9	90.9	90.9	91.2	91.4	91.4	91.4	91.6	91.7
≥ 1000	76.8	86.9	88.5	91.0	92.2	92.5	93.5	94.0	94.0	94.0	94.2	94.5	94.5	94.5	94.7	94.8
≥ 900	77.7	87.8	89.4	91.9	93.1	93.4	94.4	95.0	95.0	95.0	95.3	95.6	95.6	95.6	95.7	95.9
≥ 800	78.2	88.2	90.0	92.6	93.8	94.1	95.1	95.7	95.7	95.7	96.0	96.5	96.5	96.5	96.6	96.8
≥ 700	78.3	88.3	90.1	92.8	94.0	94.2	95.3	95.9	95.9	95.9	96.5	97.1	97.1	97.1	97.2	97.3
≥ 600	78.5	88.6	90.4	93.5	95.0	95.3	96.3	96.9	96.9	96.9	97.5	98.1	98.1	98.1	98.2	98.4
≥ 500	78.5	88.8	90.6	93.7	95.1	95.6	96.8	97.5	97.5	97.5	98.1	98.8	98.8	98.8	99.0	99.1
≥ 400	78.5	88.9	90.7	93.8	95.3	95.7	96.9	97.6	97.6	97.6	98.2	99.0	99.0	99.0	99.1	99.3
≥ 300	78.5	88.9	90.9	94.0	95.4	95.9	97.2	97.9	97.9	97.9	98.7	99.6	99.6	99.6	99.7	99.9
≥ 200	78.5	88.9	90.9	94.0	95.4	95.9	97.2	97.9	97.9	97.9	98.7	99.6	99.6	99.6	99.7	99.9
≥ 100	78.5	88.9	90.9	94.0	95.4	95.9	97.2	97.9	97.9	97.9	98.7	99.6	99.6	99.6	99.7	99.9
≥ 0	78.5	88.9	90.9	94.0	95.4	95.9	97.2	97.9	97.9	97.9	98.7	99.6	99.6	99.6	99.7	99.9

TOTAL NUMBER OF OBSERVATIONS 676

2
CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	45.3	47.7	48.2	48.7	48.8	48.9	49.2	49.3	49.3	49.5	49.5	49.5	49.6	49.6	49.7	49.6
≥ 20000	49.5	52.5	53.2	53.7	53.9	54.0	54.4	54.5	54.5	54.7	54.7	54.7	54.9	55.0	55.1	55.2
≥ 18000	49.9	52.9	53.6	54.1	54.3	54.4	54.8	54.9	54.9	55.1	55.1	55.1	55.3	55.4	55.5	55.6
≥ 16000	50.0	53.0	53.7	54.1	54.4	54.5	54.9	55.0	55.0	55.1	55.2	55.2	55.4	55.4	55.5	55.6
≥ 14000	50.7	53.8	54.5	55.0	55.2	55.3	55.8	55.8	55.8	56.0	56.1	56.1	56.3	56.3	56.4	56.5
≥ 12000	52.4	55.7	56.4	56.9	57.2	57.3	57.7	57.8	57.8	58.0	58.1	58.1	58.2	58.3	58.4	58.5
≥ 10000	54.2	57.8	58.5	59.1	59.3	59.5	60.0	60.1	60.1	60.3	60.3	60.3	60.5	60.6	60.7	60.8
≥ 9000	55.3	59.0	59.8	60.4	60.7	60.9	61.4	61.5	61.5	61.7	61.8	61.8	61.9	62.0	62.1	62.2
≥ 8000	56.2	59.9	60.8	61.4	61.7	61.9	62.4	62.5	62.5	62.7	62.8	62.8	63.0	63.0	63.1	63.2
≥ 7000	58.0	62.1	63.1	63.8	64.1	64.3	64.9	65.0	65.0	65.2	65.3	65.3	65.5	65.5	65.6	65.7
≥ 6000	58.7	63.1	64.0	64.7	65.1	65.3	65.9	66.0	66.0	66.2	66.3	66.3	66.5	66.6	66.7	66.8
≥ 5000	59.7	64.1	65.1	66.0	66.4	66.6	67.3	67.5	67.5	67.7	67.8	67.8	68.0	68.0	68.1	68.2
≥ 4500	60.3	65.1	66.2	67.0	67.5	67.8	68.5	68.6	68.6	68.9	69.0	69.0	69.2	69.2	69.3	69.4
≥ 4000	61.6	66.7	68.0	68.9	69.5	69.9	70.6	70.8	70.8	71.0	71.2	71.2	71.4	71.4	71.5	71.6
≥ 3500	62.6	68.1	69.3	70.4	71.0	71.4	72.2	72.4	72.4	72.7	72.8	72.8	73.0	73.0	73.1	73.3
≥ 3000	64.5	70.5	72.0	73.1	73.9	74.3	75.2	75.4	75.4	75.7	75.9	75.9	76.1	76.2	76.3	76.4
≥ 2500	66.9	73.5	75.0	76.2	77.2	77.8	78.7	79.1	79.1	79.4	79.6	79.6	79.8	79.9	80.0	80.1
≥ 2000	68.8	76.2	77.9	79.3	80.5	81.1	82.2	82.6	82.6	83.0	83.3	83.3	83.5	83.6	83.7	83.8
≥ 1800	69.6	77.3	79.2	80.6	81.8	82.5	83.7	84.1	84.1	84.6	84.8	84.8	85.0	85.1	85.2	85.3
≥ 1500	70.5	78.9	81.1	82.6	83.9	84.8	86.2	86.7	86.7	87.2	87.6	87.6	87.9	87.9	88.0	88.1
≥ 1200	71.3	80.4	82.6	84.4	86.0	86.8	88.4	89.0	89.0	89.7	90.1	90.1	90.4	90.4	90.6	90.7
≥ 1000	72.0	81.4	83.8	85.9	87.7	88.7	90.5	91.3	91.4	92.1	92.7	92.7	93.2	93.3	93.4	93.5
≥ 900	72.4	82.0	84.4	86.7	88.6	89.5	91.4	92.3	92.3	93.2	93.8	93.8	94.3	94.4	94.5	94.6
≥ 800	72.8	82.4	84.9	87.3	89.2	90.1	92.1	93.0	93.1	94.0	94.7	94.8	95.2	95.3	95.4	95.5
≥ 700	72.9	82.7	85.3	87.7	89.7	90.6	92.7	93.6	93.7	94.7	95.5	95.5	96.1	96.2	96.4	96.5
≥ 600	73.1	82.9	85.5	88.1	90.2	91.1	93.3	94.2	94.3	95.3	96.1	96.2	96.8	96.9	97.1	97.2
≥ 500	73.0	83.1	85.7	88.3	90.5	91.5	93.8	94.8	94.9	96.0	96.8	96.9	97.6	97.7	97.9	98.0
≥ 400	73.2	83.2	85.9	88.5	90.7	91.8	94.2	95.1	95.3	96.3	97.2	97.3	97.9	98.1	98.3	98.5
≥ 300	73.1	83.2	85.9	88.6	90.8	92.1	94.5	95.4	95.6	96.7	97.7	97.8	98.5	98.7	99.0	99.3
≥ 200	73.1	83.2	85.9	88.6	90.8	92.1	94.5	95.6	95.7	97.0	98.0	98.1	98.8	99.0	99.5	99.8
≥ 100	73.1	83.2	85.9	88.7	90.9	92.1	94.5	95.6	95.8	97.0	98.0	98.1	98.9	99.0	99.6	99.9
≥ 0	73.1	83.2	85.9	88.7	90.9	92.1	94.5	95.6	95.8	97.0	98.0	98.1	98.9	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 5424

2
GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 114 HECTOR APT FARGO ND

74-81

MAP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	50.4	52.6	53.0	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 29000	54.2	57.3	57.7	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 18000	55.4	57.8	58.2	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 16000	55.4	57.8	58.2	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 14000	55.7	58.3	58.7	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 12000	56.6	59.0	59.4	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 10000	59.4	61.8	62.2	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000	60.6	63.2	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 8000	61.4	64.1	64.5	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 7000	64.2	66.9	67.3	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 6000	66.3	69.0	69.5	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 5000	67.5	70.3	70.8	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 4500	69.2	72.3	72.8	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 4000	71.4	74.9	75.4	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500	72.6	76.1	76.6	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 3000	74.7	78.6	79.3	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2500	76.7	81.2	81.9	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 2000	79.8	84.0	84.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1800	79.3	84.8	85.9	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500	80.0	85.9	87.2	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1200	80.1	86.2	87.5	89.1	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 1000	80.5	87.2	89.1	91.0	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 900	80.6	87.8	89.7	91.7	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 800	80.9	88.0	89.9	92.2	92.5	92.6	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 700	80.9	88.4	90.3	92.6	93.0	93.1	93.7	93.7	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600	80.9	88.6	90.5	92.9	93.3	93.5	94.1	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 500	80.9	89.0	90.9	93.5	94.2	94.6	95.2	95.6	95.7	96.0	96.0	96.1	96.2	96.2	96.2	96.2
≥ 400	80.9	89.1	91.0	94.0	94.6	95.0	96.0	96.4	96.5	96.9	96.9	97.0	97.2	97.2	97.2	97.2
≥ 300	80.9	89.2	91.1	94.2	95.0	95.4	96.4	96.8	96.9	97.6	97.8	98.0	98.4	98.4	98.8	98.8
≥ 200	80.9	89.2	91.1	94.2	95.2	95.6	96.5	97.0	97.2	97.8	98.3	98.4	98.8	98.9	99.6	99.6
≥ 100	80.9	89.2	91.1	94.2	95.2	95.6	96.5	97.0	97.2	98.0	98.4	98.5	98.9	99.1	99.7	99.7
≥ 0	80.9	89.2	91.1	94.2	95.2	95.6	96.5	97.0	97.2	98.0	98.4	98.5	98.9	99.1	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

MAC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	46.9	48.8	49.5	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 20000	50.7	52.4	53.1	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 18000	50.1	52.8	53.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 16000	50.1	52.8	53.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 14000	50.7	53.6	54.3	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 12000	52.3	55.0	55.6	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 10000	56.6	59.3	59.9	60.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 9000	57.7	60.3	61.0	61.7	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 8000	58.3	61.0	61.7	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000	60.5	63.2	63.8	64.5	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 6000	62.5	65.5	66.4	67.1	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 5000	64.5	67.9	69.1	69.8	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4500	65.5	68.8	70.0	70.7	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 4000	67.3	71.4	72.6	73.5	73.9	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 3500	68.5	72.7	73.9	74.9	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 3000	71.0	75.3	76.6	77.6	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500	72.2	76.9	78.6	79.6	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 2000	74.3	79.7	81.5	82.5	83.3	83.3	83.3	83.5	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	75.1	80.8	82.5	83.6	84.4	84.4	84.4	84.5	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1500	75.4	81.5	83.2	84.7	85.8	85.8	85.9	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1200	76.2	82.5	84.4	86.0	87.1	87.1	87.4	87.5	87.5	87.5	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1000	77.2	84.0	86.0	87.8	89.0	89.0	89.2	89.7	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9
≥ 900	77.3	84.4	86.4	88.2	89.4	89.4	89.7	90.1	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	77.4	84.7	87.0	89.4	90.6	90.6	91.0	91.5	91.7	92.1	92.2	92.2	92.2	92.2	92.2	92.2
≥ 700	77.6	85.1	87.4	90.1	91.3	91.3	91.8	92.3	92.5	92.9	93.0	93.0	93.0	93.0	93.0	93.0
≥ 600	77.6	85.1	87.4	90.2	91.5	91.5	92.2	92.7	92.9	93.5	93.8	93.8	93.8	93.8	93.8	93.8
≥ 500	77.7	85.3	87.8	91.1	92.7	92.7	93.4	94.0	94.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7
≥ 400	77.7	85.3	87.8	91.1	92.9	92.9	94.1	94.6	95.0	96.1	96.4	96.4	96.4	96.4	96.4	96.4
≥ 300	77.7	85.8	88.3	91.8	93.7	93.7	94.9	95.6	96.0	97.0	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200	77.7	85.8	88.3	91.8	93.7	93.7	94.9	95.7	96.1	97.3	97.7	97.7	98.0	98.0	98.5	98.5
≥ 100	77.7	85.8	88.3	91.8	93.7	93.7	94.9	95.7	96.1	97.6	98.0	98.0	98.8	99.1	99.6	99.6
≥ 0	77.7	85.8	88.3	91.8	93.7	93.7	94.9	95.7	96.1	97.6	98.0	98.0	98.8	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

744

2
GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

RECTOR APT FARGO ND

74-81

MAC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾/16	¾
NO CEILING	44.1	46.9	47.8	48.7	49.1	49.2	49.2	49.3	49.3	49.5	49.6	49.6	49.7	49.9	50.0
≥ 20000	47.7	50.7	51.6	52.4	52.8	53.0	53.0	53.1	53.1	53.2	53.4	53.4	53.5	53.6	53.8
≥ 18000	47.7	50.7	51.6	52.4	52.8	53.0	53.0	53.1	53.1	53.2	53.4	53.4	53.5	53.6	53.8
≥ 16000	47.8	51.8	51.7	52.6	53.0	53.1	53.1	53.2	53.2	53.4	53.5	53.5	53.6	53.8	53.9
≥ 14000	48.8	51.7	52.7	53.5	53.9	54.0	54.0	54.2	54.2	54.3	54.4	54.4	54.6	54.7	54.8
≥ 12000	50.1	53.1	54.0	54.8	55.2	55.4	55.4	55.5	55.5	55.6	55.8	55.8	55.9	56.0	56.2
≥ 10000	53.4	56.3	57.3	58.1	58.5	58.6	58.6	58.7	58.7	58.9	59.0	59.0	59.1	59.3	59.4
≥ 9000	55.0	57.9	58.9	59.7	60.1	60.2	60.2	60.3	60.3	60.5	60.6	60.6	60.8	60.9	61.0
≥ 8000	56.2	59.1	60.1	60.9	61.3	61.4	61.4	61.6	61.6	61.7	61.8	61.8	62.0	62.1	62.2
≥ 7000	58.1	61.2	62.1	62.9	63.3	63.4	63.4	63.6	63.6	63.7	63.8	63.8	64.0	64.1	64.2
≥ 6000	60.1	63.3	64.2	65.1	65.5	65.6	65.6	65.7	65.7	66.0	66.1	66.1	66.3	66.4	66.5
≥ 5000	61.0	64.4	65.7	66.7	67.3	67.5	67.5	67.6	67.6	67.9	68.0	68.0	68.1	68.3	68.4
≥ 4500	62.1	65.5	66.8	67.7	68.4	68.5	68.5	68.7	68.7	69.0	69.1	69.1	69.2	69.4	69.5
≥ 4000	64.1	67.7	69.2	70.3	71.1	71.2	71.2	71.4	71.4	71.6	71.8	71.8	71.9	72.0	72.2
≥ 3500	64.9	68.5	70.2	71.2	72.0	72.3	72.3	72.4	72.4	72.7	72.8	72.8	73.0	73.1	73.3
≥ 3000	66.9	70.7	72.4	73.5	74.3	74.6	74.6	74.7	74.7	75.0	75.1	75.1	75.3	75.4	75.5
≥ 2500	68.4	72.7	74.5	75.5	76.5	76.7	76.7	76.9	76.9	77.2	77.3	77.3	77.4	77.6	77.7
≥ 2000	70.2	75.8	77.8	79.2	80.1	80.4	80.4	80.5	80.5	80.9	81.0	81.0	81.3	81.5	81.6
≥ 1800	71.0	77.0	79.2	80.5	81.5	81.7	81.7	81.9	81.9	82.3	82.4	82.4	82.7	82.8	82.9
≥ 1500	71.4	77.7	80.2	81.6	82.5	82.8	82.9	83.1	83.1	83.5	83.6	83.6	83.9	84.0	84.3
≥ 1200	72.4	79.3	82.1	83.9	84.9	85.3	85.6	85.8	85.8	86.2	86.3	86.3	86.6	86.7	86.9
≥ 1000	73.3	80.5	83.5	85.5	86.6	87.1	87.4	87.8	87.8	88.2	88.3	88.3	88.6	88.7	88.9
≥ 900	73.4	80.6	83.6	85.6	86.7	87.5	87.8	88.3	88.3	88.7	88.8	88.8	89.1	89.2	89.4
≥ 800	73.4	80.6	83.6	85.8	87.0	88.0	88.6	89.4	89.4	89.8	90.1	90.1	90.5	90.6	90.9
≥ 700	73.4	80.8	83.7	86.0	87.4	88.4	89.0	89.8	89.8	90.2	90.5	90.5	90.9	91.0	91.1
≥ 600	73.7	81.0	84.0	86.3	87.6	88.7	89.4	90.2	90.2	90.9	91.1	91.1	91.7	91.8	91.9
≥ 500	73.7	81.2	84.1	86.7	88.6	89.7	90.6	91.4	91.4	92.2	92.5	92.5	93.0	93.1	93.5
≥ 400	73.7	81.5	84.4	87.1	89.1	90.2	91.3	92.1	92.1	93.0	93.3	93.3	93.8	94.0	94.4
≥ 300	73.7	81.7	84.8	87.6	89.8	90.9	91.9	92.7	92.9	94.0	94.5	94.5	95.0	95.2	95.7
≥ 200	73.7	81.9	84.9	87.8	89.9	91.0	92.1	92.9	93.0	94.6	95.4	95.4	96.4	96.6	97.6
≥ 100	73.7	81.9	84.9	87.8	89.9	91.0	92.1	92.9	93.0	94.8	95.7	95.7	96.8	97.0	99.1
≥ 0	73.7	81.9	84.9	87.8	89.9	91.0	92.1	92.9	93.0	94.8	95.7	95.7	96.8	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS

744

2

CLIMAT CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)0900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	46.4	49.5	51.0	50.4	50.7	50.9	51.3	51.3	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.7
≥20000	50.5	54.0	54.6	55.0	55.2	55.5	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.3	56.3	56.5
≥18000	50.7	54.4	55.3	55.4	55.6	55.9	56.3	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.9
≥16000	51.1	54.7	55.2	55.6	55.9	56.2	56.6	56.6	56.6	57.0	57.0	57.0	57.0	57.0	57.0	57.1
≥14000	52.3	55.9	56.5	56.9	57.1	57.4	57.8	57.8	57.8	58.2	58.2	58.2	58.2	58.2	58.2	58.3
≥12000	52.3	56.5	57.7	57.4	57.7	57.9	58.3	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.9
≥10000	54.3	58.1	58.7	59.1	59.4	59.7	60.1	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.6
≥9000	55.3	59.5	60.2	60.6	60.9	61.2	61.6	61.6	61.6	62.0	62.0	62.0	62.0	62.0	62.0	62.1
≥8000	56.5	60.3	61.0	61.4	61.7	62.0	62.4	62.4	62.4	62.8	62.8	62.8	62.8	62.9	62.9	63.0
≥7000	58.3	62.2	62.9	63.3	63.6	63.8	64.2	64.2	64.2	64.7	64.7	64.7	64.7	64.8	64.8	64.9
≥6000	59.7	62.9	63.7	64.1	64.4	64.7	65.1	65.1	65.1	65.5	65.5	65.5	65.5	65.6	65.6	65.7
≥5000	59.7	63.8	64.7	65.1	65.5	65.7	66.1	66.1	66.1	66.5	66.5	66.5	66.5	66.7	66.7	66.8
≥4500	61.6	65.9	66.7	67.1	67.5	67.7	68.3	68.3	68.3	68.7	68.7	68.7	68.7	68.8	68.8	69.0
≥4000	63.2	68.0	68.8	69.2	69.9	70.3	70.8	70.8	70.8	71.2	71.4	71.4	71.4	71.5	71.5	71.6
≥3500	64.7	68.8	69.8	70.3	71.0	71.4	71.9	71.9	71.9	72.3	72.4	72.4	72.4	72.6	72.6	72.7
≥3000	65.6	70.4	71.6	72.2	73.1	73.5	74.1	74.1	74.1	74.5	74.6	74.6	74.6	74.7	74.7	74.9
≥2500	66.9	72.3	74.1	74.6	75.5	75.9	76.6	76.9	76.9	77.3	77.4	77.4	77.4	77.6	77.6	77.7
≥2000	69.4	75.4	77.3	77.8	78.9	79.3	80.0	80.5	80.5	81.0	81.3	81.3	81.3	81.5	81.5	81.6
≥1800	69.8	76.1	78.2	78.8	80.1	80.5	81.2	81.7	81.7	82.4	82.7	82.7	82.7	82.8	82.8	82.9
≥1500	70.8	77.6	80.0	80.8	82.1	82.5	83.2	83.9	83.9	84.7	84.9	84.9	84.9	85.1	85.1	85.5
≥1200	71.5	78.6	81.2	82.0	83.3	84.0	84.8	85.6	85.6	86.6	87.0	87.0	87.0	87.1	87.1	87.6
≥1000	72.7	79.8	82.8	83.6	84.9	85.6	86.6	87.4	87.4	88.4	88.8	88.8	88.8	89.1	89.1	89.7
≥900	72.7	80.5	83.6	84.8	86.2	86.8	87.9	88.8	88.8	90.1	90.5	90.5	90.5	90.7	90.7	91.3
≥800	72.7	80.8	84.0	85.3	86.8	87.5	88.6	89.5	89.5	90.9	91.3	91.4	91.4	91.7	91.7	92.2
≥700	72.7	81.0	84.8	86.4	88.2	88.8	89.9	90.9	90.9	92.2	92.6	92.7	92.7	93.0	93.0	93.5
≥600	72.7	81.2	84.9	86.6	88.3	89.0	90.1	91.1	91.1	92.6	93.0	93.1	93.4	93.4	93.4	94.0
≥500	72.7	81.3	85.1	86.8	88.6	89.2	90.5	91.5	91.5	93.1	93.5	93.7	94.1	94.1	94.1	94.6
≥400	72.7	81.5	85.3	87.2	89.0	89.7	91.0	92.7	92.7	94.5	95.2	95.3	95.7	95.7	95.7	96.2
≥300	72.7	81.5	85.3	87.5	89.2	89.9	91.3	93.1	93.1	94.9	95.6	95.8	96.5	96.5	96.5	97.0
≥200	72.7	81.5	85.3	87.5	89.2	89.9	91.4	93.7	93.7	95.7	96.9	97.2	98.0	98.1	98.1	98.7
≥100	72.7	81.5	85.3	87.5	89.2	89.9	91.4	93.7	93.7	95.7	96.9	97.2	98.0	98.1	98.5	99.6
≥0	72.7	81.5	85.3	87.5	89.2	89.9	91.4	93.7	93.7	95.7	96.9	97.2	98.0	98.1	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2

2

24 A 5

MONTH

1200-1400
HOURS (L.S.T.)

TOTAL NUMBER OF OBSERVATIONS 744

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2
CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-1-1- HECTOR APT FARGO ND

74-81

MAC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	46.1	47.4	47.7	47.7	48.5	48.5	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 20000	42.4	54.4	54.7	54.8	55.6	55.6	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 18000	43.1	55.1	55.4	55.5	56.3	56.3	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 16000	43.1	55.1	55.4	55.5	56.3	56.3	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 14000	43.5	55.5	55.8	55.9	56.7	56.7	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 12000	54.8	56.9	57.1	57.4	58.2	58.2	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 10000	55.7	58.2	58.5	58.7	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 9000	57.7	59.9	60.2	60.5	61.3	61.3	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 8000	58.7	61.0	61.6	61.8	62.6	62.6	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 7000	59.7	62.1	62.4	62.9	63.7	63.7	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 6000	60.9	63.0	63.6	64.0	64.8	64.8	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 5000	61.2	63.7	64.2	64.7	65.5	65.5	65.7	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0
≥ 4500	61.3	64.7	64.5	64.9	65.7	65.9	66.1	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4
≥ 4000	62.3	65.6	66.1	66.7	67.5	67.6	67.9	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1
≥ 3500	63.3	66.1	66.7	67.2	68.0	68.1	68.4	68.5	68.5	68.5	68.5	68.5	68.7	68.7	68.7	68.7
≥ 3000	66.0	69.5	70.0	70.6	71.5	71.6	71.9	72.0	72.0	72.3	72.3	72.3	72.4	72.4	72.4	72.4
≥ 2500	69.1	72.7	73.3	73.8	74.9	75.0	75.3	75.4	75.4	75.7	75.7	75.8	75.8	75.8	75.8	75.8
≥ 2000	72.3	76.5	77.3	78.0	79.0	79.2	79.7	79.8	79.8	80.1	80.1	80.2	80.2	80.2	80.2	80.2
≥ 1800	73.3	77.8	78.6	79.3	80.6	80.8	81.3	81.7	81.7	82.0	82.0	82.1	82.1	82.1	82.1	82.1
≥ 1500	75.9	80.6	81.7	82.7	84.0	84.3	84.9	85.8	85.8	86.0	86.2	86.3	86.3	86.3	86.3	86.3
≥ 1200	76.5	82.1	83.6	84.5	86.0	86.4	87.1	88.2	88.2	88.4	88.6	88.7	88.7	88.7	88.7	88.7
≥ 1000	77.1	82.8	84.3	85.3	87.0	87.4	88.3	89.5	89.7	90.3	90.5	90.6	90.6	90.6	90.6	90.6
≥ 900	77.8	83.7	85.6	86.7	88.3	88.7	89.7	91.0	91.1	91.8	92.1	92.2	92.2	92.2	92.2	92.2
≥ 800	77.8	84.0	86.0	87.2	89.0	89.4	90.3	91.7	91.8	92.5	92.7	92.9	93.0	93.0	93.0	93.0
≥ 700	77.8	84.4	86.6	87.9	89.7	90.1	91.5	92.9	93.0	93.7	94.0	94.1	94.2	94.2	94.2	94.2
≥ 600	77.8	84.4	86.6	88.0	89.8	90.6	92.2	94.0	94.1	94.9	95.2	95.3	95.4	95.4	95.4	95.4
≥ 500	77.8	84.4	86.8	88.3	90.1	91.0	92.9	94.6	94.8	96.2	96.5	96.6	96.8	96.8	96.8	96.8
≥ 400	77.8	84.4	86.8	88.3	90.2	91.3	93.3	95.2	95.3	97.0	97.6	97.7	97.8	98.1	98.1	98.1
≥ 300	77.8	84.4	86.8	88.3	90.2	91.3	93.4	95.4	95.6	97.6	98.4	98.5	98.7	98.9	99.1	99.1
≥ 200	77.8	84.4	86.8	88.3	90.2	91.3	93.5	95.8	96.0	98.0	98.8	98.9	99.2	99.6	99.7	99.7
≥ 100	77.8	84.4	86.8	88.3	90.2	91.3	93.5	95.8	96.0	98.0	98.8	98.9	99.2	99.6	100.0	100.0
≥ 0	77.8	84.4	86.8	88.3	90.2	91.3	93.5	95.8	96.0	98.0	98.8	98.9	99.2	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 740

2

CLIMAT CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-61

MAC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING ≥ 20000	54.2	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
≥ 18000 ≥ 6000	56.4	58.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3
≥ 14000 ≥ 2000	56.7	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5
≥ 10000 ≥ 9000	56.7	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5
≥ 8000 ≥ 7000	57.6	59.2	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6
≥ 6000 ≥ 5000	61.1	62.7	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1
≥ 4500 ≥ 4000	61.4	63.1	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5
≥ 3500 ≥ 3000	63.1	64.9	65.0	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4
≥ 2500 ≥ 2000	65.4	67.2	67.3	67.7	67.7	67.8	67.8	67.8	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0
≥ 1800 ≥ 1500	66.6	68.4	68.5	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.2
≥ 1200 ≥ 1000	67.6	69.4	69.6	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.3	70.3	70.3	70.3	70.3	70.3
≥ 900 ≥ 800	68.2	70.7	70.9	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7
≥ 700 ≥ 600	70.3	72.9	73.2	73.8	73.8	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0
≥ 500 ≥ 400	70.8	73.6	73.9	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7
≥ 300 ≥ 200	74.7	77.1	77.5	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.5
≥ 100 ≥ 0	75.8	79.7	80.2	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2
	77.4	81.4	82.2	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7
	78.5	82.5	83.3	84.4	84.4	84.5	84.7	84.7	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9
	79.3	83.8	84.7	85.7	85.7	85.9	86.0	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3
	80.1	85.7	86.8	87.9	88.0	88.4	88.7	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0
	80.5	86.1	87.2	88.3	88.7	89.1	89.8	89.9	89.9	89.9	90.2	90.2	90.2	90.2	90.2	90.2
	81.7	86.7	87.9	89.1	89.6	90.0	90.8	91.0	91.0	91.0	91.8	91.8	91.8	91.8	91.8	91.8
	81.3	87.1	88.3	89.6	90.2	90.7	91.5	91.8	91.8	91.8	92.6	92.6	92.6	92.6	92.6	92.6
	81.3	87.1	88.3	89.6	90.2	90.7	91.5	92.1	92.1	92.1	92.9	92.9	92.9	92.9	92.9	92.9
	81.4	87.6	89.4	90.7	91.3	91.8	92.7	93.7	93.7	93.7	94.5	94.5	94.5	94.5	94.5	94.5
	81.6	88.3	90.2	91.8	92.7	93.4	94.5	95.6	95.6	95.6	96.4	96.4	96.5	96.5	96.5	96.5
	81.6	88.3	90.2	91.8	92.7	93.4	94.9	96.2	96.2	96.2	97.2	97.2	97.3	97.4	97.4	97.4
	81.6	88.3	90.6	92.2	93.5	94.3	95.8	97.3	97.3	97.3	98.3	98.5	98.7	99.2	99.5	99.6
	81.6	88.3	90.6	92.2	93.5	94.3	95.8	97.3	97.3	97.3	98.3	98.5	98.7	99.2	99.6	99.7
	81.6	88.3	90.6	92.2	93.5	94.3	95.8	97.3	97.3	97.3	98.3	98.5	98.7	99.2	99.6	100.0
	81.6	88.3	90.6	92.2	93.5	94.3	95.8	97.3	97.3	97.3	98.3	98.5	98.7	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 743

LOCAL CLIMATOLOGY BRANCH
 METAC
 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

MAP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	48.9	51.0	51.4	51.7	52.0	52.1	52.1	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.4
≥ 20000	52.1	55.3	55.7	56.0	56.4	56.4	56.5	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.8
≥ 18000	53.2	55.7	56.1	56.4	56.8	56.8	56.9	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1
≥ 16000	53.2	55.7	56.2	56.5	56.8	56.9	56.9	57.0	57.0	57.1	57.1	57.1	57.1	57.2	57.2	57.2
≥ 14000	53.7	56.3	56.7	57.0	57.4	57.4	57.5	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.8
≥ 12000	54.7	57.5	57.9	58.3	58.6	58.7	58.8	58.8	58.8	58.9	58.9	58.9	58.9	59.0	59.0	59.0
≥ 10000	57.2	59.9	60.4	60.7	61.1	61.1	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 9000	58.4	61.1	61.6	61.9	62.3	62.3	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6
≥ 8000	59.3	62.1	62.6	62.9	63.3	63.4	63.5	63.5	63.5	63.6	63.6	63.6	63.6	63.7	63.7	63.7
≥ 7000	61.1	64.0	64.5	64.8	65.2	65.3	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.6	65.6	65.6
≥ 6000	62.5	65.4	66.0	66.4	66.7	66.8	66.9	67.0	67.0	67.1	67.1	67.1	67.1	67.2	67.2	67.2
≥ 5000	63.5	66.6	67.3	67.7	68.1	68.2	68.3	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.6	68.6
≥ 4500	64.4	67.7	68.3	68.8	69.2	69.3	69.4	69.5	69.5	69.6	69.6	69.7	69.7	69.7	69.7	69.7
≥ 4000	66.1	69.6	70.3	70.8	71.3	71.4	71.6	71.7	71.7	71.8	71.8	71.9	71.9	71.9	71.9	72.0
≥ 3500	66.8	70.4	71.2	71.7	72.2	72.3	72.5	72.6	72.6	72.7	72.7	72.7	72.8	72.8	72.8	72.8
≥ 3000	69.2	73.0	73.8	74.4	75.0	75.1	75.3	75.4	75.4	75.5	75.6	75.6	75.7	75.7	75.7	75.7
≥ 2500	71.0	75.3	76.3	77.0	77.6	77.7	77.9	78.1	78.1	78.2	78.3	78.3	78.3	78.4	78.4	78.4
≥ 2000	73.7	78.7	79.8	80.6	81.3	81.5	81.8	82.0	82.0	82.2	82.3	82.3	82.4	82.4	82.4	82.4
≥ 1800	74.5	79.8	81.7	81.8	82.6	82.8	83.1	83.3	83.3	83.6	83.7	83.7	83.8	83.8	83.8	83.8
≥ 1500	75.6	81.3	82.7	83.8	84.6	84.8	85.2	85.5	85.5	85.9	86.0	86.0	86.1	86.1	86.1	86.2
≥ 1200	76.3	82.5	84.1	85.3	86.2	86.5	87.0	87.4	87.4	87.7	87.9	87.9	88.0	88.0	88.0	88.1
≥ 1000	76.8	83.6	85.3	86.6	87.6	88.0	88.6	89.1	89.2	89.6	89.8	89.9	90.0	90.0	90.0	90.1
≥ 900	77.2	84.1	86.0	87.4	88.4	88.9	89.5	90.1	90.2	90.8	91.0	91.1	91.2	91.2	91.2	91.3
≥ 800	77.4	84.5	86.4	88.1	89.2	89.7	90.4	91.1	91.2	91.9	92.2	92.3	92.4	92.4	92.4	92.5
≥ 700	77.6	84.9	86.9	88.7	89.9	90.4	91.3	92.1	92.2	92.9	93.2	93.3	93.4	93.4	93.4	93.5
≥ 600	77.6	85.0	87.1	89.0	90.2	90.8	91.7	92.8	92.9	93.7	94.1	94.1	94.3	94.3	94.3	94.4
≥ 500	77.7	85.3	87.4	89.5	90.9	91.6	92.7	93.8	94.0	95.0	95.4	95.5	95.7	95.7	95.8	95.8
≥ 400	77.7	85.3	87.5	89.7	91.2	91.9	93.3	94.6	94.7	95.9	96.4	96.5	96.7	96.7	96.8	96.9
≥ 300	77.7	85.5	87.8	90.0	91.6	92.3	93.8	95.2	95.3	96.6	97.3	97.4	97.7	97.8	98.1	98.2
≥ 200	77.7	85.5	87.8	90.1	91.7	92.4	93.9	95.4	95.5	97.0	97.8	97.9	98.4	98.6	99.0	99.2
≥ 100	77.7	85.5	87.8	90.1	91.7	92.4	93.9	95.4	95.5	97.1	97.8	98.0	98.6	98.8	99.6	99.5
≥ 0	77.7	85.5	87.8	90.1	91.7	92.4	93.9	95.4	95.5	97.1	97.8	98.0	98.6	98.8	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 5951

CLIMATOLOGY BRANCH
 METAC
 AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14-14

HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-2300
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	52.6	53.2	53.8	54.4	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	55.1
≥ 20000	55.7	56.3	56.8	57.5	57.6	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	58.2
≥ 18000	55.4	56.9	57.5	58.2	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.9
≥ 16000	56.4	56.9	57.5	58.2	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.9
≥ 14000	56.4	57.5	58.1	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.4
≥ 12000	58.2	58.8	59.4	60.3	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.1
≥ 10000	61.8	62.5	63.2	64.0	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.9
≥ 9000	62.9	63.6	64.3	65.1	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	66.0
≥ 8000	64.7	65.4	66.1	66.9	67.2	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.8
≥ 7000	67.8	68.5	69.2	70.0	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.8
≥ 6000	70.0	70.8	71.5	72.4	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	73.2
≥ 5000	72.6	73.5	74.2	75.0	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	76.0
≥ 4500	74.0	75.0	75.7	76.5	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.1
≥ 4000	75.6	76.7	77.4	78.2	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	79.2
≥ 3500	75.7	76.8	77.5	78.3	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	79.3
≥ 3000	77.6	78.8	79.4	80.3	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.9	81.4
≥ 2500	79.6	80.8	81.7	82.6	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.8
≥ 2000	81.0	82.2	83.2	84.3	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.0	85.6
≥ 1800	81.7	83.1	84.0	85.1	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.0	86.5
≥ 1500	83.1	85.0	86.0	87.1	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9	88.5
≥ 1200	84.7	86.7	87.6	89.0	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.3	90.8
≥ 1000	86.3	88.2	89.4	90.8	91.5	91.5	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.2	92.8
≥ 900	86.7	88.8	90.0	91.4	92.1	92.1	92.6	92.6	92.6	92.8	92.8	92.8	92.8	92.8	92.9	93.5
≥ 800	87.2	89.3	90.7	92.1	92.9	92.9	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.8	94.3
≥ 700	87.6	90.3	91.8	93.3	94.3	94.3	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.7
≥ 600	87.8	90.7	92.4	94.2	95.1	95.1	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.3	96.8
≥ 500	88.1	91.0	92.6	94.4	95.4	95.4	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.5	96.7	97.2
≥ 400	88.3	91.4	93.2	95.0	96.0	96.0	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.2	97.4	97.9
≥ 300	88.5	91.8	93.6	95.7	96.8	96.8	97.6	97.6	97.6	98.2	98.2	98.2	98.2	98.6	98.8	99.3
≥ 200	88.5	91.8	93.6	95.7	96.8	96.8	98.1	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.4	100.0
≥ 100	88.5	91.8	93.6	95.7	96.8	96.8	98.1	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.4	100.0
≥ 0	88.5	91.8	93.6	95.7	96.8	96.8	98.1	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2

GENERAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE (MAC)

CEILING VERSUS VISIBILITY

APR

MONTEN

0300-0500
HOURS (L.S.T.)

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14
STATION

HECTOR APT FARGO ND
STATION NAME

74-81
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	44.6	46.4	46.5	46.7	47.2	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.6
≥ 20000	48.9	51.3	51.1	51.3	51.8	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.4
≥ 18000	49.2	51.3	51.4	51.5	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6
≥ 16000	49.2	51.3	51.4	51.5	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6
≥ 14000	49.7	51.8	51.9	52.1	52.6	52.9	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.5
≥ 12000	50.6	52.6	52.9	53.1	53.6	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.4
≥ 10000	55.0	57.5	57.9	58.2	58.9	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7
≥ 9000	55.4	58.2	58.6	58.9	59.6	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.6
≥ 8000	56.7	59.6	60.0	60.3	61.0	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.9
≥ 7000	58.9	61.1	62.5	62.8	63.5	63.8	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4
≥ 6000	60.6	64.0	64.7	65.0	65.8	66.1	66.7	66.7	66.7	66.7	67.1	67.1	67.1	67.2	67.2	67.5
≥ 5000	62.2	66.1	67.1	67.4	68.2	68.5	69.0	69.0	69.0	69.0	69.6	69.6	69.6	69.7	69.7	70.0
≥ 4500	63.8	68.2	69.2	69.4	70.3	70.6	71.1	71.1	71.1	71.1	71.7	71.7	71.7	71.8	71.8	72.2
≥ 4000	65.1	70.1	71.1	71.4	72.2	72.6	73.2	73.2	73.2	73.2	73.8	73.8	73.8	73.9	73.9	74.3
≥ 3500	65.9	71.0	71.9	72.2	73.1	73.5	74.0	74.0	74.0	74.0	74.6	74.6	74.6	74.7	74.7	75.1
≥ 3000	67.1	72.2	73.2	73.5	74.3	74.7	75.3	75.3	75.3	75.3	75.8	75.8	75.8	76.0	76.0	76.4
≥ 2500	70.3	75.8	76.8	77.1	77.9	78.3	79.2	79.2	79.2	79.2	79.7	79.7	79.7	79.9	79.9	80.3
≥ 2000	72.2	78.1	79.2	79.6	80.4	80.8	81.8	81.8	81.8	82.4	82.4	82.4	82.4	82.5	82.5	82.9
≥ 1800	72.9	78.8	79.9	80.3	81.3	81.7	82.6	82.6	82.6	83.2	83.3	83.3	83.3	83.5	83.5	83.9
≥ 1500	74.4	80.6	81.7	82.2	83.2	83.6	84.6	84.6	84.6	85.1	85.3	85.3	85.3	85.4	85.4	85.8
≥ 1200	75.6	82.9	84.3	84.9	86.0	86.5	87.5	87.5	87.5	88.1	88.2	88.2	88.3	88.3	88.3	88.8
≥ 1000	76.3	84.7	86.3	86.9	88.1	88.6	89.7	90.3	90.3	90.8	91.0	91.0	91.0	91.1	91.1	91.5
≥ 900	76.9	86.0	87.5	88.3	89.4	90.0	91.1	91.7	91.7	92.2	92.4	92.4	92.5	92.5	92.5	92.9
≥ 800	76.9	86.4	87.9	88.8	89.9	90.6	91.7	92.4	92.4	92.9	93.1	93.1	93.3	93.3	93.3	93.8
≥ 700	77.2	86.9	88.5	89.6	90.8	91.7	92.8	93.5	93.5	94.0	94.2	94.2	94.4	94.4	94.4	94.9
≥ 600	77.4	87.2	88.8	89.9	91.3	92.1	93.3	94.0	94.0	94.7	94.9	94.9	95.1	95.1	95.1	95.6
≥ 500	77.4	87.6	89.2	90.3	91.8	92.6	93.9	94.6	94.6	95.3	95.6	95.6	95.8	95.8	95.8	96.3
≥ 400	77.4	87.8	89.3	90.7	92.4	93.2	94.6	95.3	95.3	96.1	96.4	96.4	96.7	96.7	96.7	97.1
≥ 300	77.4	87.8	89.4	90.8	92.5	93.3	94.7	95.6	95.6	96.4	96.8	96.8	97.1	97.1	97.1	97.6
≥ 200	77.4	87.8	89.4	91.0	92.6	93.5	94.9	95.7	95.7	96.8	97.4	97.4	97.8	97.8	97.8	98.2
≥ 100	77.4	87.8	89.4	91.0	92.6	93.5	94.9	95.7	95.7	96.8	97.4	97.4	97.8	97.8	97.8	98.5
≥ 0	77.4	87.8	89.4	91.0	92.6	93.5	94.9	95.7	95.7	96.8	97.4	97.4	97.8	97.8	97.8	98.5

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	46.7	49.2	49.4	49.4	49.7	49.9	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 20000	51.3	53.5	53.8	53.8	54.3	54.6	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 18000	51.3	53.6	53.9	53.9	54.4	54.7	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 16000	51.3	53.9	54.2	54.2	54.7	55.0	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 14000	51.7	54.6	54.9	54.9	55.4	55.7	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 12000	53.6	56.4	56.7	56.7	57.2	57.5	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 10000	55.7	58.5	58.8	58.8	59.3	59.6	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 9000	56.7	59.4	59.7	59.7	60.3	60.6	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 8000	57.2	60.3	60.6	60.6	61.1	61.4	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 7000	59.6	63.2	63.5	63.5	64.0	64.3	64.7	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 6000	60.3	64.3	64.6	64.6	65.1	65.8	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 5000	61.3	65.8	66.3	66.4	66.9	67.6	68.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 4500	62.1	66.8	67.2	67.4	67.9	68.6	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 4000	63.8	68.6	69.4	69.7	70.4	71.1	71.7	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 3500	64.3	69.4	70.3	70.6	71.3	71.9	72.5	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3000	65.7	71.1	71.9	72.2	73.1	73.8	74.3	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 2500	66.9	72.5	73.3	73.6	74.6	75.3	75.8	76.1	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 2000	69.6	75.3	76.4	76.8	77.8	78.5	79.0	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 1800	70.4	76.4	77.8	78.2	79.2	80.0	80.7	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 1500	71.8	78.2	79.6	80.1	81.3	82.1	82.9	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 1200	73.3	80.4	81.9	82.9	84.2	85.0	86.0	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000	75.4	84.3	85.6	86.5	87.9	88.8	89.9	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	76.7	85.8	87.5	88.6	90.0	90.8	91.9	92.4	92.4	93.2	93.2	93.2	93.3	93.3	93.3	93.3
≥ 800	76.9	86.7	88.3	89.4	91.0	91.8	92.9	93.3	93.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
≥ 700	77.1	87.4	89.0	90.1	91.8	92.6	93.8	94.3	94.3	95.3	95.3	95.3	95.6	95.6	95.6	95.6
≥ 600	77.1	87.4	89.0	90.1	91.8	92.6	93.9	94.4	94.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7
≥ 500	77.2	87.6	89.4	90.7	92.5	93.3	95.0	95.6	95.6	96.5	96.5	96.5	96.8	96.8	96.8	96.8
≥ 400	77.2	87.9	89.7	91.1	92.9	93.8	95.8	96.5	96.5	97.8	97.8	97.8	98.1	98.1	98.2	98.2
≥ 300	77.2	87.9	89.7	91.3	93.1	94.0	96.1	96.8	96.8	98.2	98.5	98.5	98.8	98.8	98.9	98.9
≥ 200	77.2	88.1	89.9	91.4	93.2	94.2	96.3	96.9	96.9	98.3	98.6	98.6	98.9	98.9	99.2	99.3
≥ 100	77.2	88.1	89.9	91.4	93.2	94.2	96.3	97.1	97.1	98.5	98.8	98.8	99.2	99.2	99.4	99.7
≥ 0	77.2	88.1	89.9	91.4	93.2	94.2	96.3	97.1	97.1	98.6	98.9	98.9	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1964

HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	45.3	45.8	46.0	46.1	46.3	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 20000	52.5	53.8	53.9	54.0	54.2	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 18000	52.5	53.8	53.9	54.0	54.2	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 16000	52.5	54.0	54.2	54.3	54.4	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 14000	53.2	54.4	54.6	54.7	54.9	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
IV 12000	54.4	55.7	55.8	56.0	56.1	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 10000	55.6	56.8	56.9	57.1	57.2	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IV 9000	56.7	58.1	58.2	58.3	58.5	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 8000	57.2	58.6	58.8	58.9	59.0	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
IV 7000	59.0	60.4	60.6	60.7	60.8	61.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 6000	60.7	62.2	62.4	62.5	62.6	62.9	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 5000	62.6	64.6	64.9	65.1	65.3	65.6	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 4500	63.5	65.6	66.0	66.3	66.4	66.7	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 4000	65.8	68.2	68.6	68.9	69.0	69.3	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 3500	67.2	69.6	70.0	70.3	70.4	70.7	71.0	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 3000	69.0	71.9	72.4	72.6	72.8	73.1	73.5	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 2500	70.7	73.9	74.4	74.7	74.9	75.3	75.7	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 2000	72.9	76.3	76.8	77.2	77.4	77.9	78.5	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 1800	74.4	77.9	78.5	78.9	79.0	79.6	80.1	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 1500	77.9	82.4	83.1	83.6	83.9	84.4	85.0	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 1200	81.0	85.8	86.7	87.4	87.8	88.3	89.0	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1000	82.2	87.9	88.8	89.4	90.0	90.6	91.5	92.2	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 900	83.1	89.6	90.6	91.4	92.4	92.9	94.3	95.0	95.0	95.6	95.8	95.8	95.8	95.8	95.8	95.8
IV 800	83.1	90.3	91.3	92.2	93.2	93.8	95.1	95.8	95.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7
IV 700	83.2	90.4	91.5	92.5	93.8	94.4	95.8	96.5	96.5	97.1	97.4	97.4	97.4	97.4	97.4	97.4
IV 600	83.2	90.6	91.8	92.8	94.2	95.0	96.5	97.4	97.4	97.9	98.2	98.2	98.2	98.2	98.2	98.2
IV 500	83.2	90.6	91.8	92.9	94.3	95.3	97.1	97.9	97.9	98.5	98.8	98.8	98.8	98.8	98.8	98.8
IV 400	83.2	90.6	91.8	93.2	94.6	95.6	97.5	98.3	98.3	99.0	99.3	99.3	99.3	99.3	99.3	99.3
IV 300	83.2	90.6	91.9	93.3	94.7	95.7	97.8	98.6	98.6	99.4	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	83.2	90.6	91.9	93.3	94.7	95.7	97.8	98.6	98.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	83.2	90.6	91.9	93.3	94.7	95.7	97.8	98.6	98.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	83.2	90.6	91.9	93.3	94.7	95.7	97.8	98.6	98.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

721

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1914

HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	46.5	46.9	47.1	47.4	47.5	47.6	47.6	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 20000	54.4	55.3	55.4	55.7	55.8	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 18000	54.6	55.4	55.6	55.8	56.0	56.1	56.1	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 16000	54.6	55.4	55.6	55.8	56.0	56.1	56.1	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 14000	55.6	56.4	56.5	56.8	56.9	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 12000	56.3	57.6	57.8	58.1	58.2	58.3	58.3	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 10000	58.1	59.3	59.4	59.7	59.9	60.0	60.0	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 9000	60.7	62.2	62.4	62.6	62.8	62.9	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 8000	61.7	63.6	63.8	64.0	64.2	64.3	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 7000	63.8	65.7	66.0	66.3	66.4	66.5	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 6000	66.3	68.3	68.6	68.9	69.0	69.2	69.3	69.3	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 5000	69.2	70.3	70.6	70.8	71.0	71.1	71.3	71.3	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 4500	69.4	71.5	71.8	72.1	72.2	72.4	72.5	72.5	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 4000	70.7	72.8	73.1	73.3	73.5	73.6	73.8	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3500	71.9	74.3	74.6	74.9	75.0	75.1	75.3	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 3000	75.4	78.2	78.5	78.8	78.9	79.0	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	79.0	81.9	82.2	82.5	82.6	82.8	82.9	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000	81.7	85.1	85.4	85.7	86.0	86.3	86.4	86.4	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1800	82.4	85.8	86.1	86.5	86.8	87.1	87.2	87.2	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 1500	85.3	89.2	89.4	89.9	90.1	90.4	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1200	87.1	91.9	92.2	92.6	92.9	93.2	93.5	93.5	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	87.6	93.9	94.3	94.7	95.0	95.3	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	87.6	94.6	95.0	95.4	95.8	96.1	96.5	96.5	96.5	96.9	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	87.6	94.7	95.1	95.6	96.0	96.3	96.7	96.7	96.7	97.1	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	87.6	94.7	95.1	95.6	96.1	96.5	97.2	97.4	97.4	97.8	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	87.6	95.1	95.6	96.0	96.5	96.9	97.6	98.1	98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	87.6	95.1	95.6	96.0	96.5	96.9	97.6	98.1	98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	87.6	95.3	95.7	96.3	96.8	97.2	97.9	98.3	98.3	98.8	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300	87.6	95.3	95.7	96.5	97.1	97.5	98.2	98.8	98.8	99.2	99.7	99.7	99.7	99.7	99.9	99.9
≥ 200	87.6	95.3	95.7	96.5	97.1	97.5	98.2	98.9	98.9	99.3	99.9	99.9	99.9	99.9	100.0	100.0
≥ 100	87.6	95.3	95.7	96.5	97.1	97.5	98.2	98.9	98.9	99.3	99.9	99.9	99.9	99.9	100.0	100.0
≥ 0	87.6	95.3	95.7	96.5	97.1	97.5	98.2	98.9	98.9	99.3	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AD-WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-914

HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.3	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 20000	56.3	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 18000	56.4	57.6	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 16000	56.5	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 14000	57.5	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 12000	59.2	60.4	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 10000	63.1	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 9000	66.0	67.9	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 8000	66.9	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 7000	69.9	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 6000	71.5	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 5000	73.5	76.0	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 4500	74.7	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4000	76.1	78.9	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 3500	76.8	79.7	79.7	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000	79.0	82.4	82.4	82.6	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 2500	81.8	85.3	85.3	85.7	85.7	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000	83.8	87.6	87.6	88.1	88.1	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1800	84.4	88.5	88.5	88.9	88.9	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500	87.2	91.3	91.3	91.7	91.7	91.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1200	88.2	92.5	92.5	92.9	93.1	93.3	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	88.9	93.6	93.6	94.2	94.6	94.9	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	89.0	93.8	94.0	94.7	95.3	95.6	96.3	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800	89.0	94.0	94.3	95.0	95.6	95.8	96.5	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 700	89.0	94.2	94.4	95.1	95.7	96.0	96.8	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	89.0	94.4	94.7	95.4	96.1	96.4	97.2	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500	89.2	94.7	95.0	95.8	96.7	96.9	97.8	98.3	98.3	98.9	98.9	98.9	98.9	99.2	99.2	99.2
≥ 400	89.2	94.7	95.0	95.8	96.7	97.1	97.9	98.5	98.5	99.0	99.0	99.0	99.0	99.4	99.4	99.4
≥ 300	89.2	94.7	95.0	95.8	96.7	97.1	97.9	98.5	98.5	99.0	99.0	99.0	99.0	99.6	99.6	99.6
≥ 200	89.2	94.7	95.0	95.8	96.7	97.1	97.9	98.5	98.5	99.0	99.0	99.0	99.0	99.9	99.9	99.9
≥ 100	89.2	94.7	95.0	95.8	96.7	97.1	97.9	98.5	98.5	99.0	99.0	99.0	99.0	100.0	100.0	100.0
≥ 0	89.2	94.7	95.0	95.8	96.7	97.1	97.9	98.5	98.5	99.0	99.0	99.0	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
ETAC
METEOROLOGICAL SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

APP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	55.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000	58.9	59.6	60.3	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 18000	59.6	60.3	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 16000	59.6	60.3	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 14000	60.1	60.8	61.5	61.5	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 12000	61.0	61.7	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 10000	64.2	64.9	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 9000	65.6	66.3	66.9	66.9	66.9	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000	67.8	68.5	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 7000	70.7	71.4	72.2	72.2	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 6000	72.9	73.8	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000	74.3	75.4	76.3	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500	75.0	76.4	77.2	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 4000	76.7	78.3	79.2	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 3500	77.2	78.9	79.7	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000	79.4	82.1	83.1	83.3	83.3	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 2500	82.1	85.1	86.3	86.5	86.5	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000	83.9	87.1	88.2	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	85.0	88.3	89.4	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1500	85.8	89.4	90.7	91.4	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1200	86.9	91.1	92.6	93.5	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000	87.4	91.9	93.5	94.3	94.6	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 900	87.8	92.8	94.3	95.1	95.7	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 800	87.9	92.9	94.4	95.6	96.1	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700	88.2	93.2	94.7	95.8	96.5	96.7	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	88.3	93.6	95.4	96.8	97.5	97.6	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	88.6	93.9	95.7	97.1	97.8	97.9	98.3	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	88.6	94.0	96.1	97.6	98.3	98.5	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	88.6	94.0	96.1	97.8	98.5	98.8	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	88.6	94.0	96.1	97.8	98.5	98.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	88.6	94.0	96.1	97.8	98.5	98.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	88.6	94.0	96.1	97.8	98.5	98.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2

GLOBAL CLIMATOLOGY BRANCH
 WAFETAC
 AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

11114 HECTOR APT FARGO ND

74-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	47.8	49.8	50.0	50.2	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.7	50.8
≥ 20000	53.7	55.0	55.2	55.5	55.7	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1
≥ 18000	54.0	55.3	55.5	55.8	56.0	56.1	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.4
IV 16000	54.1	55.3	55.6	55.9	56.1	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.4	56.5
≥ 14000	54.8	56.0	56.3	56.6	56.8	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.2
IV 12000	56.1	57.3	57.6	57.9	58.1	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.6
≥ 10000	58.8	60.3	60.7	61.0	61.2	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.7
IV 9000	60.3	61.9	62.2	62.6	62.8	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.3
≥ 8000	61.6	63.3	63.7	64.0	64.2	64.3	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.7
IV 7000	64.1	66.0	66.4	66.7	66.9	67.0	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4
≥ 6000	66.0	68.0	68.4	68.8	69.0	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.6	69.7
IV 5000	67.7	70.0	70.5	70.9	71.1	71.3	71.5	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.8	71.9
≥ 4500	68.9	71.4	71.9	72.3	72.5	72.7	72.9	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.2	73.3
IV 4000	70.6	73.3	73.8	74.3	74.5	74.7	74.9	75.0	75.0	75.1	75.1	75.1	75.2	75.2	75.2	75.3
≥ 3500	71.4	74.1	74.7	75.1	75.4	75.6	75.8	75.9	75.9	76.0	76.0	76.0	76.1	76.1	76.1	76.3
IV 3000	73.5	76.6	77.2	77.6	77.9	78.1	78.4	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.7	78.8
≥ 2500	76.0	79.4	80.0	80.5	80.8	81.0	81.3	81.4	81.4	81.5	81.5	81.5	81.6	81.6	81.7	81.9
IV 2000	78.1	81.6	82.4	83.0	83.3	83.6	83.9	84.0	84.0	84.1	84.1	84.1	84.2	84.2	84.2	84.4
≥ 1800	78.9	82.6	83.4	84.0	84.4	84.6	85.0	85.1	85.1	85.2	85.2	85.2	85.3	85.3	85.4	85.5
IV 1500	80.9	85.1	85.9	86.5	86.9	87.2	87.7	87.8	87.8	87.9	88.0	88.0	88.0	88.0	88.1	88.2
≥ 1200	82.5	87.2	88.1	88.9	89.4	89.7	90.3	90.4	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.9
IV 1000	83.5	89.0	90.0	90.8	91.4	91.8	92.4	92.6	92.6	92.9	92.9	92.9	93.0	93.0	93.0	93.2
≥ 900	84.1	90.0	91.1	92.0	92.8	93.1	93.8	94.0	94.0	94.4	94.5	94.5	94.6	94.6	94.6	94.8
IV 800	84.3	90.4	91.6	92.5	93.3	93.7	94.4	94.7	94.7	95.0	95.2	95.2	95.2	95.2	95.3	95.5
≥ 700	84.4	90.9	92.0	93.0	94.0	94.4	95.2	95.5	95.5	95.9	96.0	96.0	96.1	96.1	96.1	96.3
IV 600	84.5	91.1	92.4	93.5	94.5	94.9	95.8	96.1	96.1	96.6	96.7	96.7	96.8	96.8	96.9	97.0
≥ 500	84.6	91.3	92.6	93.8	94.9	95.3	96.3	96.7	96.7	97.2	97.3	97.3	97.5	97.5	97.6	97.7
IV 400	84.7	91.5	92.9	94.2	95.3	95.8	96.8	97.3	97.3	97.9	98.0	98.0	98.2	98.2	98.3	98.4
≥ 300	84.7	91.6	93.0	94.4	95.6	96.1	97.2	97.7	97.7	98.4	98.6	98.6	98.8	98.8	98.9	99.1
IV 200	84.7	91.6	93.0	94.5	95.7	96.2	97.4	97.9	97.9	98.7	99.0	99.0	99.3	99.3	99.4	99.7
≥ 100	84.7	91.6	93.0	94.5	95.7	96.2	97.4	97.9	97.9	98.7	99.0	99.0	99.4	99.4	99.6	99.9
IV 0	84.7	91.6	93.0	94.5	95.7	96.2	97.4	98.0	98.0	98.8	99.1	99.1	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 5762

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING ≥ 20000	57.8 64.4	58.9 65.5	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6	59.0 65.6
≥ 18000 ≥ 16000	64.5 64.5	65.6 65.6	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7	65.7 65.7
≥ 14000 ≥ 12000	65.2 67.1	66.3 68.1	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3	66.4 68.3
≥ 10000 ≥ 9000	71.6 73.5	72.7 74.6	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.8 74.7	72.3 74.7	72.8 74.7	72.8 74.7	72.8 74.7
≥ 8000 ≥ 7000	75.3 79.2	76.3 80.5	76.5 80.6	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8	76.6 80.8
≥ 6000 ≥ 5000	80.9 82.1	82.3 83.5	82.4 83.6	82.5 83.9	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0	82.5 84.0
≥ 4500 ≥ 4000	83.9 85.1	85.3 86.7	85.5 87.0	85.8 87.2	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4	85.9 87.4
≥ 3500 ≥ 3000	85.3 86.2	87.0 87.9	87.2 88.2	87.5 88.4	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6	87.6 88.6
≥ 2500 ≥ 2000	86.8 88.3	88.7 90.5	89.0 90.7	89.2 91.1	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7	89.8 91.7
≥ 1800 ≥ 1500	88.7 89.7	90.9 91.9	91.3 92.5	91.7 92.9	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5	92.2 93.5
≥ 1200 ≥ 1000	90.6 91.1	92.9 94.1	93.5 94.8	94.2 95.6	95.0 96.4	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5	95.2 96.5
≥ 900 ≥ 800	91.1 91.4	94.4 94.6	95.0 95.4	95.8 96.4	96.6 97.2	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3
≥ 700 ≥ 600	91.4 91.5	94.8 95.0	95.7 96.0	96.6 96.9	97.4 97.7	97.6 97.8	97.6 97.8	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1	97.6 98.1
≥ 500 ≥ 400	91.5 91.5	95.3 95.6	96.5 96.9	97.4 98.0	98.3 98.8	98.4 98.9	98.4 98.9	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2	98.7 99.2
≥ 300 ≥ 200	91.5 91.5	95.7 95.8	97.0 97.2	98.3 98.4	99.1 99.2	99.3 99.5	99.5 99.6	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9
≥ 100 ≥ 0	91.5 91.5	95.8 95.8	97.2 97.2	98.4 98.4	99.2 99.2	99.5 99.5	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1114 HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

300-05
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥0	≥0
NO CEILING	55.4	57.1	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57
≥ 20000	58.3	62.4	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63
≥ 18000	57.6	62.6	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63
≥ 16000	61.1	63.0	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63
≥ 14000	62.0	64.0	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64
≥ 12000	62.4	64.9	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65
≥ 10000	69.0	71.1	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72
≥ 9000	71.2	73.4	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74
≥ 8000	73.5	75.8	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76
≥ 7000	77.8	80.1	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81
≥ 6000	77.6	82.0	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83
≥ 5000	80.8	83.2	84.1	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84
≥ 4500	81.6	84.0	84.9	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85
≥ 4000	82.4	84.9	85.9	86.3	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86
≥ 3500	83.3	85.9	86.8	87.4	87.5	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	86
≥ 3000	83.9	86.6	87.5	88.0	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	86
≥ 2500	85.2	88.2	89.1	89.9	90.1	90.2	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90
≥ 2000	86.0	89.4	90.5	91.3	91.4	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	90
≥ 1800	86.5	89.4	90.5	91.3	91.4	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92
≥ 1500	86.4	89.9	91.0	91.8	91.9	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92
≥ 1200	88.4	92.3	93.4	94.2	94.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95
≥ 1000	88.7	92.7	94.0	94.8	95.0	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95
≥ 900	88.9	93.1	94.2	95.2	95.4	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96
≥ 800	89.0	93.1	94.4	95.4	95.8	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96
≥ 700	89.1	93.4	94.8	95.8	96.2	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97
≥ 600	89.4	93.7	95.2	96.2	96.6	96.8	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97
≥ 500	89.4	94.0	95.4	97.0	97.4	97.6	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98
≥ 400	89.5	94.1	95.6	97.4	98.0	98.3	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99
≥ 300	89.5	94.1	95.6	97.4	98.1	98.4	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99
≥ 200	89.5	94.1	95.6	97.4	98.3	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100
≥ 100	89.5	94.1	95.6	97.4	98.3	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100
≥ 0	89.5	94.1	95.6	97.4	98.3	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100

TOTAL NUMBER OF OBSERVATIONS 7

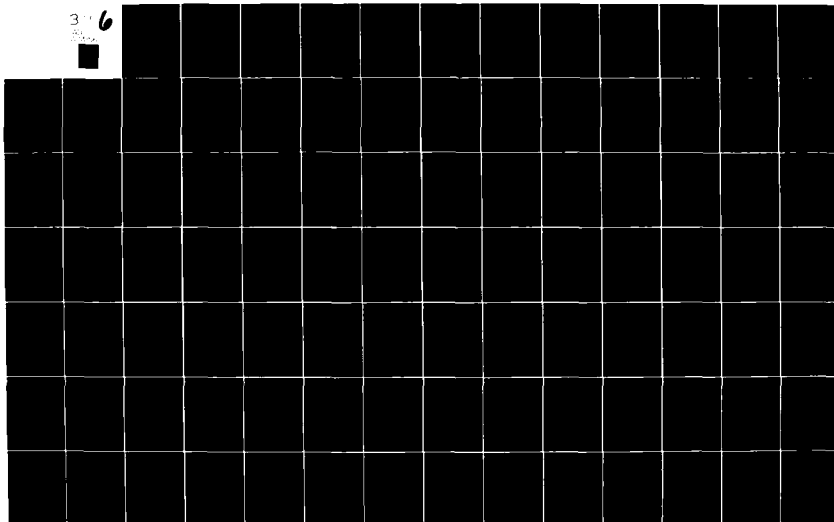
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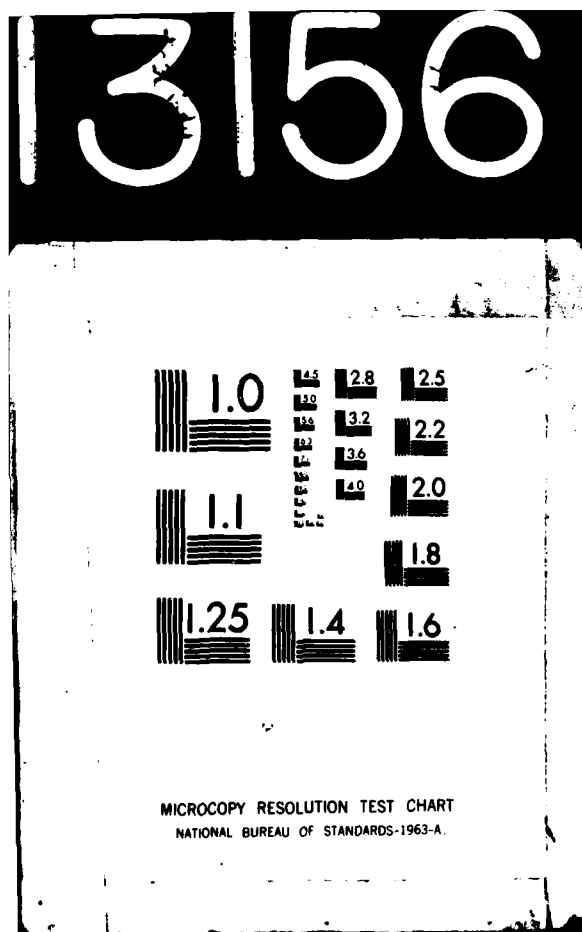
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2
 CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	54.6	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 20000	59.7	61.7	62.2	62.2	62.2	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 18000	59.8	61.8	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 16000	59.9	62.3	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	61.6	63.6	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 12000	63.3	65.6	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000	67.5	70.6	71.2	71.2	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.6	71.6
≥ 9000	68.8	72.2	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.3	73.4	73.4
≥ 8000	70.4	73.9	74.7	74.7	74.7	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.0	75.1	75.1
≥ 7000	72.7	76.9	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	78.0	78.1	78.1
≥ 6000	75.1	79.7	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.9	80.9
≥ 5000	77.7	81.9	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.1	83.2	83.2
≥ 4500	78.1	82.8	83.7	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.1	84.1
≥ 4000	79.8	84.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0	86.2	86.2
≥ 3500	80.1	85.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.6	86.6
≥ 3000	81.2	87.0	87.9	87.9	87.9	87.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.6	88.6
≥ 2500	81.7	87.9	89.0	89.0	89.1	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.7	89.8	89.8
≥ 2000	82.9	89.2	90.3	90.3	90.6	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.3	91.3
≥ 1800	83.6	90.2	91.4	91.4	91.7	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.2	92.3	92.3
≥ 1500	84.5	91.3	92.5	92.6	92.9	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.5	93.5
≥ 1200	84.9	91.8	93.0	93.1	93.4	93.4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.4	94.4
≥ 1000	85.5	92.3	93.7	94.1	94.4	94.4	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.6	95.6
≥ 900	86.0	92.9	94.2	94.8	95.0	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.4	96.4
≥ 800	86.7	92.9	94.2	94.8	95.0	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.4	96.4
≥ 700	86.2	93.0	94.4	94.9	95.2	95.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.5	96.5
≥ 600	86.3	93.5	95.2	95.7	96.0	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.4	97.4
≥ 500	86.3	93.5	95.2	95.8	96.2	96.8	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	98.0	98.0
≥ 400	86.3	93.8	95.4	96.2	96.6	97.6	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.9	98.9
≥ 300	86.3	93.8	95.4	96.2	96.6	97.8	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6
≥ 200	86.3	94.0	95.6	96.4	96.8	98.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 100	86.3	94.0	95.6	96.4	96.8	98.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 0	86.3	94.0	95.6	96.4	96.8	98.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 20000	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 18000	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 16000	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 14000	65.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 12000	67.1	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000	69.9	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 9000	71.0	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 8000	72.7	74.3	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000	73.8	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 6000	74.7	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000	76.5	78.9	78.9	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4500	76.9	79.4	79.4	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000	77.8	80.6	80.6	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3500	78.9	81.7	81.7	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3000	80.9	84.4	84.4	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 2500	82.7	86.2	86.2	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000	85.6	89.4	89.4	89.8	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1800	86.7	90.5	90.5	90.9	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500	88.6	92.6	92.6	93.0	93.7	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200	89.7	94.1	94.1	94.5	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1000	90.3	95.0	95.0	95.4	96.1	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 900	90.5	95.4	95.4	95.8	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 800	90.7	95.7	95.7	96.1	96.8	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	91.0	96.1	96.1	96.5	97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	91.4	96.6	96.6	97.2	98.1	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	91.4	96.9	97.0	97.4	98.4	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	91.5	97.2	97.4	97.8	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	91.5	97.2	97.4	97.8	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.5	97.2	97.4	97.8	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.5	97.2	97.4	97.8	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.5	97.2	97.4	97.8	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 20000	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 18000	59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 16000	59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 14000	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 12000	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000	65.9	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 9000	67.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 8000	69.1	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 7000	70.8	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	73.3	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	76.5	77.3	77.4	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4500	76.9	77.8	78.0	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4000	79.8	80.8	80.9	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3500	81.7	82.8	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3000	84.4	85.5	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500	88.7	90.6	91.0	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2000	90.6	92.6	93.0	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1800	91.7	93.7	94.1	94.4	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500	93.3	95.4	95.8	96.1	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1200	94.0	96.1	96.6	97.0	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	94.2	96.5	97.0	97.6	97.8	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	94.5	97.0	97.6	98.1	98.4	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	94.5	97.3	97.8	98.4	98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	94.5	97.4	98.0	98.5	98.8	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	94.5	97.4	98.0	98.5	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	94.5	97.4	98.0	98.5	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	94.5	97.4	98.0	98.5	98.9	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	94.5	97.4	98.0	98.5	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.5	97.4	98.0	98.5	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.5	97.4	98.0	98.5	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ U	94.5	97.4	98.0	98.5	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING ≥ 20000	49.7 59.1	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6	50.9 60.6
≥ 18000 ≥ 16000	59.4 59.6	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1	60.8 61.1
≥ 14000 ≥ 12000	60.4 63.5	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0	61.9 65.0
≥ 10000 ≥ 9000	68.8 70.5	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.1	70.4 72.3	70.4 72.3	70.4 72.3	70.4 72.3	70.4 72.3	70.4 72.3	70.4 72.3
≥ 8000 ≥ 7000	71.3 73.6	73.1 75.4	73.1 75.4	73.1 75.4	73.1 75.4	73.1 75.4	73.1 75.4	73.1 75.4	73.1 75.4	73.2 75.5	73.2 75.5	73.2 75.5	73.2 75.5	73.2 75.5	73.2 75.5	73.2 75.5
≥ 6000 ≥ 5000	77.9 81.6	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.3	79.7 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4	79.8 83.4
≥ 4500 ≥ 4000	83.3 84.9	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.2	85.3 87.3	85.5 87.3	85.5 87.3	85.5 87.3	85.5 87.3	85.5 87.3	85.5 87.3
≥ 3500 ≥ 3000	86.1 89.6	88.4 92.2	88.4 92.2	88.4 92.2	88.4 92.3	88.4 92.3	88.4 92.3	88.4 92.3	88.4 92.3	88.6 92.5	88.6 92.5	88.6 92.5	88.6 92.5	88.6 92.5	88.6 92.5	88.6 92.5
≥ 2500 ≥ 2000	90.6 91.5	93.8 95.0	93.8 95.0	93.8 95.0	93.9 95.2	93.9 95.2	93.9 95.2	93.9 95.2	93.9 95.2	94.1 95.3	94.1 95.3	94.1 95.3	94.1 95.3	94.1 95.3	94.1 95.3	94.1 95.3
≥ 1800 ≥ 1500	92.1 92.9	95.6 96.4	95.6 96.4	95.6 96.4	95.7 96.5	95.7 96.5	95.7 96.5	95.7 96.5	95.7 96.5	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6	95.8 96.6
≥ 1200 ≥ 1000	93.0 93.1	96.6 97.2	96.6 97.2	96.6 97.2	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.8 97.3	96.9 97.4	96.9 97.4	96.9 97.4	96.9 97.4	96.9 97.4	96.9 97.4	96.9 97.4
≥ 900 ≥ 800	93.1 93.3	97.6 98.0	97.6 98.1	97.6 98.1	97.7 98.3	97.7 98.3	97.7 98.3	97.7 98.3	97.7 98.3	97.8 98.4	97.8 98.4	97.8 98.4	97.8 98.4	97.8 98.4	97.8 98.4	97.8 98.4
≥ 700 ≥ 600	93.4 93.4	98.1 98.1	98.3 98.3	98.3 98.3	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.5 98.5	98.5 98.5	98.5 98.5	98.5 98.5	98.5 98.5	98.5 98.5	98.5 96.5
≥ 500 ≥ 400	93.4 93.4	98.1 98.1	98.3 98.3	98.3 98.5	98.5 98.8	98.5 98.8	98.5 98.8	98.9 99.3	98.9 99.6	99.1 99.9	99.1 99.9	99.1 99.9	99.1 99.9	99.1 99.9	99.1 99.9	99.1 99.9
≥ 300 ≥ 200	93.4 93.4	98.1 98.1	98.3 98.3	98.7 98.7	98.9 98.9	98.9 98.9	99.5 99.5	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 0	93.4 93.4	98.1 98.1	98.3 98.3	98.7 98.7	98.9 98.9	98.9 98.9	99.5 99.5	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 743

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-514

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	55.1	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 20000	65.5	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 18000	65.6	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 16000	65.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 14000	66.7	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 12000	68.2	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	73.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 9000	75.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000	77.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 7000	80.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 6000	83.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 5000	85.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 4500	86.9	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4000	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3500	89.6	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3000	91.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2500	92.3	94.6	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2000	92.6	95.0	95.1	95.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	92.6	95.1	95.3	95.4	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500	93.3	96.2	96.4	96.5	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	93.3	96.4	96.5	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	93.3	96.5	96.6	96.8	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	93.3	96.6	96.8	96.9	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	93.4	97.2	97.3	97.4	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 700	93.4	97.6	97.7	97.8	98.0	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	93.4	97.7	97.8	98.0	98.1	98.1	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	93.5	97.8	98.0	98.2	98.4	98.4	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	93.5	97.8	98.0	98.2	98.4	98.4	99.1	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	93.5	97.8	98.0	98.2	98.4	98.4	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	93.5	97.8	98.0	98.2	98.4	98.4	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	93.5	97.8	98.0	98.2	98.4	98.4	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	93.5	97.8	98.0	98.2	98.4	98.4	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

741

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14-14

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	57.8	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 20000	64.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 18000	65.7	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 16000	65.1	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 14000	66.1	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 12000	67.8	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 9000	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 8000	75.5	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 7000	78.8	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 6000	80.5	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 5000	82.4	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 4500	83.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 4000	85.3	87.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500	86.8	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3000	87.8	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500	89.1	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 2000	90.3	93.8	94.3	94.3	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1800	90.5	94.2	94.7	94.7	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1500	90.9	94.9	95.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	91.2	95.3	95.8	95.8	95.8	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1000	91.2	95.9	96.5	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	91.2	96.2	96.9	97.0	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	91.2	96.5	97.3	97.4	97.4	97.4	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 700	91.4	97.0	97.8	98.0	98.0	98.0	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	91.4	97.3	98.1	98.2	98.2	98.2	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	91.4	97.3	98.1	98.4	98.4	98.4	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	91.4	97.4	98.4	98.6	98.6	98.6	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	91.4	97.6	98.6	98.9	99.1	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	91.4	97.7	98.9	99.2	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.4	97.7	98.9	99.2	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.4	97.7	98.9	99.2	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 74

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

74-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURE (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING ≥ 20000	55.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2
≥ 18000	62.2	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6
≥ 16000	62.3	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 14000	62.5	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9
≥ 12000	63.5	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 10000	65.3	66.6	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 9000	69.7	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5
≥ 8000	71.5	73.0	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 7000	73.2	74.8	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2
≥ 6000	75.9	77.8	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000	78.2	80.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.6
≥ 4500	80.3	82.5	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1
≥ 4000	81.3	83.6	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2
≥ 3500	82.9	85.4	85.7	85.8	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	84.7	86.5	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2
≥ 2500	85.6	88.4	88.7	88.9	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2
≥ 2000	87.1	90.3	90.7	90.9	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3
≥ 1800	88.5	91.9	92.3	92.5	92.7	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0
≥ 1500	89.0	92.4	92.9	93.2	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	89.9	93.6	94.1	94.3	94.6	94.7	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	90.6	94.4	95.0	95.3	95.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0
≥ 900	90.9	95.0	95.6	96.0	96.3	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8
≥ 800	91.1	95.4	96.0	96.4	96.7	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2
≥ 700	91.2	95.7	96.3	96.8	97.1	97.2	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 600	91.3	95.9	96.6	97.1	97.4	97.5	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	91.4	96.2	96.9	97.4	97.7	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 400	91.4	96.3	97.1	97.6	98.0	98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9
≥ 300	91.5	96.4	97.2	97.9	98.4	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
≥ 200	91.5	96.5	97.3	98.0	98.5	98.9	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	91.5	96.5	97.4	98.1	98.6	99.0	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	91.5	96.5	97.4	98.1	98.6	99.0	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5944

USAF ETAC FORM 0-14-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1974

HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	62.2	63.2	63.3	63.3	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6	63.6	63.6
≥ 20000	70.7	71.8	71.9	71.9	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2
≥ 18000	70.8	71.9	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	72.4
≥ 16000	70.8	71.9	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	72.4
≥ 14000	71.0	72.1	72.2	72.2	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5
≥ 12000	74.3	75.4	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8
≥ 10000	78.6	79.7	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1
≥ 9500	81.3	82.6	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.1	83.1	83.1
≥ 8000	83.3	84.7	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1	85.1
≥ 7000	85.7	87.1	87.2	87.2	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5
≥ 6000	87.8	89.2	89.3	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.6	89.6	89.6
≥ 5000	88.5	90.1	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.6	90.6	90.6
≥ 4500	88.6	90.4	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	91.0	91.0	91.0
≥ 4000	90.1	91.9	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5	92.5
≥ 3500	90.4	92.4	92.6	92.6	92.6	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9
≥ 3000	91.8	94.3	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.9	94.9	94.9
≥ 2500	93.1	95.6	95.8	95.8	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1
≥ 2000	93.6	96.1	96.4	96.4	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8	96.8
≥ 1800	94.2	96.8	97.1	97.1	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5
≥ 1500	94.6	97.2	97.5	97.5	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9
≥ 1200	94.6	97.2	97.5	97.5	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9
≥ 1000	95.0	98.1	98.3	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8
≥ 900	95.0	98.3	98.6	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0
≥ 800	95.1	98.6	98.9	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
≥ 700	95.1	98.8	99.0	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6
≥ 600	95.1	98.8	99.0	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6
≥ 500	95.1	98.9	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 400	95.1	99.0	99.4	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	95.1	99.0	99.4	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	95.1	99.0	99.4	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	95.1	99.0	99.4	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	95.1	99.0	99.4	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

720

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 414 HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	57.8	59.3	59.4	59.9	60.0	60.0	60.7	60.7	60.7	60.8	60.8	60.8	61.0	61.0	61.0	61.3
≥ 20000	65.3	66.8	66.9	67.4	67.5	67.5	68.2	68.2	68.2	68.5	68.5	68.5	68.6	68.6	68.6	68.9
≥ 18000	65.8	67.4	67.5	67.9	68.1	68.1	68.8	68.9	68.9	69.2	69.2	69.2	69.3	69.3	69.3	69.6
≥ 16000	66.3	67.8	67.9	68.3	68.5	68.5	69.2	69.3	69.3	69.6	69.6	69.6	69.7	69.7	69.7	70.0
≥ 14000	67.5	69.0	69.2	69.6	69.7	69.7	70.4	70.6	70.6	70.8	70.8	70.8	71.0	71.0	71.0	71.3
≥ 12000	70.7	72.2	72.4	72.8	72.9	72.9	73.6	73.8	73.8	74.0	74.0	74.0	74.2	74.2	74.2	74.4
≥ 10000	73.5	75.0	75.1	75.6	75.7	75.7	76.4	76.5	76.5	76.8	76.8	76.8	76.9	76.9	76.9	77.2
≥ 9000	77.4	79.4	79.6	80.0	80.1	80.1	80.8	81.0	81.0	81.3	81.3	81.3	81.4	81.4	81.4	81.7
≥ 8000	78.6	80.8	81.0	81.4	81.5	81.5	82.2	82.4	82.4	82.6	82.6	82.6	82.8	82.8	82.8	83.1
≥ 7000	81.1	83.6	83.6	84.2	84.3	84.3	85.0	85.1	85.1	85.4	85.4	85.4	85.6	85.6	85.6	86.1
≥ 6000	81.7	84.2	84.3	84.7	84.9	84.9	85.6	85.7	85.7	86.0	86.0	86.0	86.1	86.1	86.1	86.4
≥ 5000	83.2	85.8	86.0	86.4	86.5	86.5	87.2	87.4	87.4	87.6	87.6	87.6	87.8	87.8	87.8	88.3
≥ 4500	83.5	86.1	86.3	86.7	86.8	86.8	87.5	87.6	87.6	87.9	87.9	87.9	88.1	88.1	88.1	88.6
≥ 4000	84.6	87.4	87.6	88.1	88.2	88.2	88.9	89.0	89.0	89.3	89.3	89.3	89.4	89.4	89.4	90.0
≥ 3500	85.0	87.9	88.2	88.8	88.9	88.9	89.6	89.7	89.7	90.0	90.0	90.0	90.1	90.1	90.1	90.4
≥ 3000	86.3	89.6	90.0	90.6	90.7	90.7	91.4	91.5	91.5	91.8	91.8	91.8	91.9	91.9	91.9	92.2
≥ 2500	87.1	90.7	91.1	91.7	91.8	91.8	92.5	92.6	92.6	92.9	92.9	92.9	93.1	93.1	93.1	93.6
≥ 2000	87.8	91.5	92.1	92.6	92.8	92.8	93.5	93.6	93.6	93.9	93.9	93.9	94.0	94.0	94.0	94.6
≥ 1800	87.9	91.7	92.2	92.8	92.9	92.9	93.6	93.8	93.8	94.0	94.0	94.0	94.2	94.2	94.2	94.7
≥ 1500	88.2	91.9	92.5	93.1	93.2	93.2	93.9	94.0	94.0	94.3	94.3	94.3	94.4	94.4	94.4	95.0
≥ 1200	89.6	93.5	94.3	94.9	95.0	95.0	95.7	95.8	95.8	96.1	96.1	96.1	96.3	96.3	96.3	96.8
≥ 1000	89.9	94.2	95.1	95.8	96.0	96.0	96.7	96.8	96.8	97.1	97.1	97.1	97.2	97.2	97.2	97.8
≥ 900	90.1	94.6	95.6	96.3	96.4	96.4	97.1	97.2	97.2	97.5	97.5	97.5	97.6	97.6	97.6	98.2
≥ 800	90.3	94.7	95.7	96.4	96.5	96.5	97.2	97.4	97.4	97.6	97.6	97.6	97.8	97.8	97.8	98.3
≥ 700	90.3	94.7	95.7	96.4	96.5	96.5	97.2	97.4	97.4	97.6	97.6	97.6	97.8	97.8	97.8	98.3
≥ 600	90.4	95.0	96.1	96.9	97.1	97.1	97.8	97.9	97.9	98.2	98.2	98.2	98.3	98.3	98.3	98.9
≥ 500	90.4	95.0	96.1	96.9	97.1	97.1	97.8	97.9	97.9	98.2	98.2	98.2	98.3	98.3	98.3	98.9
≥ 400	90.6	95.3	96.4	97.2	97.4	97.4	98.1	98.2	98.2	98.5	98.5	98.5	98.6	98.6	98.6	99.2
≥ 300	90.6	95.3	96.4	97.2	97.4	97.4	98.3	98.5	98.5	98.8	98.8	98.8	98.9	98.9	98.9	99.9
≥ 200	90.6	95.3	96.4	97.2	97.4	97.4	98.3	98.5	98.5	98.8	98.8	98.8	98.9	98.9	98.9	99.9
≥ 100	90.6	95.3	96.4	97.2	97.4	97.4	98.3	98.5	98.5	98.8	98.8	98.8	98.9	98.9	98.9	99.9
≥ 0	90.6	95.3	96.4	97.2	97.4	97.4	98.3	98.5	98.5	98.8	98.8	98.8	98.9	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS

720

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-614

HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

J600-0800
HOURS (LST.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	55.6	57.1	57.8	57.8	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.5
≥ 20000	62.6	64.2	65.1	65.1	65.4	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.3	66.3	66.4
≥ 18000	62.9	64.4	65.4	65.4	65.7	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7	66.7	66.8
≥ 16000	63.1	64.7	65.7	65.7	66.0	66.5	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	67.1
≥ 14000	64.3	66.0	66.9	66.9	67.2	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.3
≥ 12000	67.6	69.7	70.7	70.7	71.0	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9	72.1
≥ 10000	72.4	74.6	75.6	75.6	75.8	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.9
≥ 9000	74.7	77.2	78.2	78.2	78.5	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.6
≥ 8000	76.3	79.2	80.1	80.1	80.4	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.5
≥ 7000	78.9	81.9	82.9	82.9	83.2	83.8	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.4
≥ 6000	79.7	82.8	83.8	83.8	84.0	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1	85.3
≥ 5000	81.3	84.3	85.3	85.4	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.9
≥ 4500	81.3	84.3	85.3	85.4	85.7	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.9
≥ 4000	81.8	85.0	86.0	86.1	86.4	86.9	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.6
≥ 3500	81.9	85.6	86.5	86.7	86.9	87.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.1	88.1	88.2
≥ 3000	82.4	86.3	87.4	87.5	87.9	88.5	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.2
≥ 2500	82.9	86.8	87.9	88.1	88.5	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.6	89.6	89.7
≥ 2000	84.9	89.7	90.8	91.2	91.7	92.2	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.1
≥ 1800	85.1	90.0	91.1	91.4	91.9	92.5	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.3
≥ 1500	85.7	90.6	91.8	92.1	92.6	93.2	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.9	93.9	94.0
≥ 1200	86.5	91.5	92.8	93.1	93.6	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.9	94.9	95.0
≥ 1000	87.4	92.6	93.9	94.2	94.7	95.3	95.7	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.1
≥ 900	87.9	93.3	94.6	94.9	95.4	96.0	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	96.8
≥ 800	88.2	93.9	95.3	95.6	96.1	96.7	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.6
≥ 700	88.2	93.9	95.4	95.8	96.7	97.2	97.8	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.2
≥ 600	88.8	94.4	96.0	96.4	97.2	97.8	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.9
≥ 500	88.8	94.6	96.3	96.7	97.5	98.1	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.3
≥ 400	88.8	94.6	96.3	96.7	97.5	98.1	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.3
≥ 300	88.8	94.6	96.3	96.7	97.5	98.1	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.3	99.4
≥ 200	88.8	94.6	96.3	96.7	97.5	98.1	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.4	99.6
≥ 100	88.8	94.6	96.3	96.7	97.5	98.1	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.4	99.7
≥ 0	88.9	94.7	96.4	96.8	97.6	98.2	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
NATIONAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	59.1	60.3	60.4	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 20000	56.1	67.2	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 18000	66.0	67.2	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 16000	66.1	67.4	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 14000	67.5	68.8	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 12000	69.6	71.1	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 10000	73.5	75.1	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 9000	74.7	76.5	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000	76.7	78.8	78.9	78.9	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 7000	78.9	81.3	81.4	81.4	81.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 6000	79.2	81.8	81.9	81.9	82.1	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 5000	80.6	83.9	84.0	84.0	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4500	81.3	84.6	84.7	84.7	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4000	81.9	85.3	85.4	85.4	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3500	82.8	86.4	86.5	86.5	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 3000	83.8	87.9	88.2	88.2	88.3	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2500	84.9	89.2	89.4	89.4	89.6	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000	86.3	90.6	90.8	90.8	91.0	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1800	86.8	91.1	91.4	91.4	91.7	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1500	89.2	93.9	94.2	94.2	94.4	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200	90.6	95.4	95.7	95.7	96.0	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	91.1	96.0	96.3	96.3	96.7	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	91.8	96.8	97.1	97.1	97.8	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 800	92.1	97.1	97.4	97.4	98.1	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	92.5	97.5	97.8	97.8	98.5	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	92.6	98.1	98.3	98.3	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.6	98.2	98.5	98.5	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1994

HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING ≥ 20000	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 18000	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 16000	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 12000	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 10000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 9000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 8000	71.8	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 7000	74.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 6000	75.4	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 5000	80.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 4500	81.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4000	84.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500	85.0	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 3000	87.9	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	89.7	92.9	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	91.4	94.9	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1800	92.4	95.8	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1500	93.5	96.9	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	93.9	97.4	97.8	97.8	97.9	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1000	94.6	98.2	98.6	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	94.6	98.2	98.6	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	95.0	98.6	99.0	99.0	99.2	99.3	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.4	99.0	99.4	99.4	99.6	99.7	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

CEILING CLIMATOLOGY BRANCH
WAFB
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

15-14

HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 20000	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 18000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 16000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 14000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 12000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 10000	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 9000	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 8000	77.6	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 7000	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 6000	83.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000	86.1	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 4500	87.1	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4000	88.8	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3500	89.7	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 3000	91.7	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 2500	93.1	95.4	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2000	94.9	98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1800	95.0	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	95.1	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	95.4	98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	95.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	95.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	95.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	95.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	95.8	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	95.8	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	95.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	95.8	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	95.8	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	95.8	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	95.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
OFFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	61.7	62.2	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 20000	70.8	71.1	71.5	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 18000	71.4	71.7	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 16000	71.5	71.8	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 14000	72.5	72.8	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 12000	75.3	75.7	76.1	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 10000	78.8	79.4	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000	80.3	81.0	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 8000	81.9	82.6	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 7000	83.8	84.4	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 6000	86.8	87.8	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 5000	89.2	90.7	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4500	90.7	92.2	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	92.1	93.9	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3500	92.5	94.4	95.1	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3000	93.8	95.7	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2500	94.9	96.8	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2000	95.7	97.9	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800	95.7	97.9	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500	96.1	98.3	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	96.3	98.5	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	96.4	98.6	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	96.4	98.6	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	96.4	98.6	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	96.4	98.6	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	96.4	98.8	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.4	98.8	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
GLOBAL CLIMATOLOGY BRANCH
AFETAC
AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14 14 HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	65.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 20000	74.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 18000	75.3	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 16000	75.3	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 14000	76.1	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 12000	79.2	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 10000	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 9000	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 8000	87.4	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 7000	89.2	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 6000	90.8	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 5000	91.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 4500	91.7	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4000	92.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 3500	93.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 3000	93.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	94.7	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2000	95.6	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1800	96.0	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1500	96.4	98.5	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	96.5	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2
≥ 1000	96.7	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
≥ 900	96.7	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
≥ 800	96.8	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6
≥ 700	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 600	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 500	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	96.8	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
CLIMAT CLIMATOLOGY BRANCH
USAFETAC
4TH WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14

HECTOR APT FARGO ND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	58.7	59.5	59.6	59.7	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.1
≥ 20000	56.8	67.6	67.9	67.9	68.0	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.4
≥ 18000	67.2	68.0	68.2	68.3	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.8	68.8
≥ 16000	67.3	68.2	68.4	68.5	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	69.0
≥ 14000	68.2	69.1	69.3	69.4	69.5	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.9
≥ 12000	71.4	72.4	72.6	72.6	72.7	72.8	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1	73.1
≥ 10000	75.4	76.5	76.7	76.8	76.8	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2
≥ 9000	77.3	78.6	78.8	78.9	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.3	79.3	79.4
≥ 8000	79.2	80.6	80.8	80.9	81.0	81.1	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.4	81.4
≥ 7000	81.4	82.9	83.1	83.1	83.2	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6	83.6	83.7
≥ 6000	83.1	84.9	85.1	85.2	85.2	85.3	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.7	85.7
≥ 5000	85.1	87.1	87.3	87.4	87.5	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9	87.9	88.0
≥ 4500	85.7	87.8	88.1	88.2	88.3	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7
≥ 4000	87.3	89.3	89.6	89.7	89.8	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2
≥ 3500	87.6	90.0	90.3	90.5	90.6	90.6	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	91.0	91.0
≥ 3000	88.9	91.7	92.1	92.2	92.3	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.8	92.8
≥ 2500	90.0	93.0	93.4	93.5	93.6	93.7	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 2000	91.3	94.5	95.0	95.2	95.3	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.9
≥ 1800	91.6	94.9	95.4	95.6	95.7	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.3
≥ 1500	92.3	95.7	96.2	96.4	96.5	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.1
≥ 1200	92.9	96.4	96.9	97.0	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.8
≥ 1000	93.4	97.0	97.5	97.7	97.9	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	98.5
≥ 900	93.5	97.2	97.8	98.0	98.2	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.8
≥ 800	93.7	97.5	98.0	98.2	98.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.1
≥ 700	93.8	97.6	98.2	98.5	98.7	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
≥ 600	93.9	97.8	98.4	98.7	99.0	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.6
≥ 500	93.9	97.9	98.5	98.8	99.0	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 400	93.9	97.9	98.6	98.8	99.1	99.3	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8
≥ 300	93.9	97.9	98.6	98.8	99.1	99.3	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9
≥ 200	93.9	97.9	98.6	98.8	99.1	99.3	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9
≥ 100	93.9	97.9	98.6	98.8	99.1	99.3	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9
≥ 0	94.0	97.9	98.6	98.9	99.1	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5760

CLIMATE CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/4AC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	71.5	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 20000	75.9	76.9	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 18000	76.1	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 16000	76.2	77.2	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 14000	78.1	79.0	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 12000	81.2	82.1	82.1	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 10000	86.8	87.9	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 9000	88.6	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 8000	90.2	91.3	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 7000	91.5	92.6	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 6000	92.7	93.8	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 5000	92.9	94.0	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 4500	93.7	94.1	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 4000	93.5	94.9	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3500	93.7	95.0	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 3000	94.4	95.7	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2500	94.9	96.4	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2000	95.4	96.9	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800	95.6	97.0	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1500	95.6	97.2	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200	96.2	97.8	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	96.5	98.1	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	96.5	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	96.5	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	96.5	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	96.6	98.4	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	96.6	98.7	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	96.8	98.8	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	96.8	98.8	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.8	98.8	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.8	98.8	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.8	98.8	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-514 HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	64.4	66.0	66.8	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3
≥ 20000	69.4	71.1	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4
≥ 18000	70.2	71.9	72.7	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.3	73.3	73.3
≥ 16000	70.6	72.3	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.7	73.7
≥ 14000	71.8	73.5	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.9	74.9	74.9
≥ 12000	75.1	77.0	77.8	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.6	78.6	78.6
≥ 10000	78.9	80.8	81.6	82.1	82.1	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4
≥ 9000	81.0	82.9	83.7	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5
≥ 8000	82.7	84.7	85.8	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6	86.6
≥ 7000	84.9	87.0	88.0	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8
≥ 6000	86.8	89.0	90.1	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.9	90.9	90.9
≥ 5000	87.8	89.9	91.0	91.5	91.5	91.5	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8
≥ 4500	88.4	90.7	91.8	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6
≥ 4000	89.4	91.8	92.9	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.7	93.7	93.7
≥ 3500	89.4	91.8	92.9	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.7	93.7	93.7
≥ 3000	90.3	92.9	94.0	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.8	94.8	94.8
≥ 2500	91.3	93.8	94.9	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7
≥ 2000	91.8	94.5	95.6	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4
≥ 1800	91.8	94.5	95.6	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4
≥ 1500	92.2	94.9	96.0	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8
≥ 1200	92.9	95.6	96.6	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4
≥ 1000	92.9	95.7	96.8	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 900	92.9	95.7	96.8	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 800	92.9	95.7	96.8	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 700	92.9	95.7	96.8	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 600	92.9	95.7	97.0	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8
≥ 500	92.9	95.8	97.2	97.7	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
≥ 400	92.9	96.0	97.3	98.0	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5
≥ 300	92.9	96.4	98.0	98.8	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5
≥ 200	92.9	96.4	98.0	98.8	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5
≥ 100	92.9	96.4	98.0	98.8	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5
≥ 0	92.9	96.4	98.0	98.8	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-90

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0600
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	62.7	64.2	64.7	64.9	65.1	65.3	65.3	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6
≥ 20000	66.7	69.5	69.9	70.2	70.4	70.7	70.7	70.8	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1
≥ 18000	67.5	70.3	70.7	71.0	71.2	71.5	71.5	71.6	71.6	71.8	71.8	71.9	71.9	71.9	71.9	71.9
≥ 16000	67.5	70.3	70.7	71.0	71.2	71.5	71.5	71.6	71.6	71.8	71.8	71.9	71.9	71.9	71.9	71.9
≥ 14000	68.5	71.5	71.9	72.2	72.4	72.7	72.7	72.8	72.8	73.0	73.0	73.1	73.1	73.1	73.1	73.1
≥ 12000	70.7	73.7	74.1	74.3	74.6	74.9	74.9	75.0	75.0	75.1	75.1	75.3	75.3	75.3	75.3	75.3
≥ 10000	74.7	78.1	78.5	79.2	79.4	79.7	79.7	79.8	79.8	80.0	80.0	80.1	80.1	80.1	80.1	80.1
≥ 9000	77.2	80.8	81.2	81.9	82.1	82.4	82.4	82.5	82.5	82.7	82.7	82.8	82.8	82.8	82.8	82.8
≥ 8000	79.3	82.9	83.3	84.0	84.3	84.5	84.5	84.7	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9
≥ 7000	80.5	84.3	84.7	85.3	85.6	85.9	85.9	86.0	86.0	86.2	86.2	86.3	86.3	86.3	86.3	86.3
≥ 6000	81.3	85.1	85.6	86.3	86.6	86.8	86.8	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.2
≥ 5000	82.9	87.0	87.5	88.2	88.4	88.7	88.7	88.8	88.8	89.0	89.0	89.1	89.1	89.1	89.1	89.1
≥ 4500	83.2	87.2	87.8	88.4	88.7	89.0	89.0	89.1	89.1	89.2	89.2	89.4	89.4	89.4	89.4	89.4
≥ 4000	83.9	88.0	88.7	89.4	89.7	89.9	89.9	90.1	90.1	90.3	90.3	90.5	90.5	90.5	90.5	90.5
≥ 3500	84.3	88.6	89.2	89.9	90.2	90.5	90.5	90.6	90.6	90.9	90.9	91.0	91.0	91.0	91.0	91.0
≥ 3000	85.1	89.5	90.2	90.9	91.1	91.4	91.4	91.5	91.5	91.8	91.8	91.9	91.9	91.9	91.9	91.9
≥ 2500	85.6	90.1	90.7	91.4	91.7	91.9	91.9	92.1	92.1	92.3	92.3	92.5	92.5	92.5	92.5	92.5
≥ 2000	86.4	91.0	91.8	92.5	92.9	93.1	93.1	93.3	93.3	93.5	93.5	93.7	93.7	93.7	93.7	93.7
≥ 1800	86.6	91.1	91.9	92.6	93.0	93.3	93.4	93.5	93.5	93.8	93.8	94.0	94.0	94.0	94.0	94.0
≥ 1500	86.6	91.3	92.1	92.7	93.1	93.4	93.5	93.7	93.7	94.0	94.0	94.1	94.1	94.1	94.1	94.1
≥ 1200	86.6	91.8	92.6	93.3	93.7	94.0	94.1	94.2	94.2	94.5	94.5	94.6	94.6	94.6	94.6	94.6
≥ 1000	86.6	91.8	92.6	93.3	93.7	94.0	94.2	94.4	94.4	94.6	94.6	94.8	94.8	94.8	94.8	94.8
≥ 900	87.5	93.0	93.8	94.5	94.9	95.2	95.4	95.6	95.6	95.8	95.8	96.0	96.0	96.0	96.0	96.0
≥ 800	87.6	93.3	94.1	94.8	95.2	95.4	95.7	95.8	95.8	96.1	96.1	96.2	96.2	96.2	96.2	96.2
≥ 700	87.8	93.4	94.2	94.9	95.3	95.6	95.8	96.0	96.0	96.2	96.2	96.4	96.4	96.4	96.4	96.4
≥ 600	87.8	93.5	94.5	95.2	95.6	95.8	96.2	96.4	96.4	96.6	96.6	96.8	96.8	96.8	96.8	96.8
≥ 500	87.9	94.0	94.9	95.6	96.2	96.5	96.9	97.0	97.0	97.3	97.3	97.4	97.4	97.4	97.4	97.4
≥ 400	88.2	94.9	95.8	96.5	97.3	97.6	98.0	98.1	98.1	98.4	98.4	98.5	98.5	98.5	98.5	98.5
≥ 300	88.2	95.2	96.2	97.0	98.0	98.3	98.7	98.9	98.9	99.2	99.3	99.5	99.5	99.5	99.5	99.5
≥ 200	88.2	95.2	96.2	97.0	98.0	98.3	98.8	99.2	99.2	99.5	99.6	99.7	99.7	99.7	99.7	99.7
≥ 100	88.2	95.2	96.2	97.0	98.0	98.3	98.8	99.2	99.2	99.5	99.6	99.7	99.7	99.7	100.0	100.0
≥ 0	88.2	95.2	96.2	97.0	98.0	98.3	98.8	99.2	99.2	99.5	99.6	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

USAF ETAC FORM 0-14-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
451 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-514

HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	61.4	62.8	63.0	63.2	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 20000	71.1	72.6	72.8	73.0	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 18000	71.9	73.4	73.7	73.8	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 16000	71.9	73.4	73.7	73.8	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 14000	72.7	74.2	74.5	74.6	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 12000	74.9	76.3	76.6	76.7	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 10000	79.0	80.9	81.2	81.7	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 9000	80.5	82.5	82.8	83.5	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 8000	81.9	84.0	84.3	84.9	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 7000	82.8	84.9	85.2	85.9	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 6000	83.2	85.3	85.6	86.3	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 5000	84.1	86.4	86.7	87.4	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4500	84.9	87.2	87.5	88.2	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4000	85.8	88.0	88.3	89.0	89.4	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3500	86.2	88.6	88.8	89.5	89.9	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000	86.7	89.2	89.5	90.2	90.6	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	87.2	89.8	90.1	90.7	91.1	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 2000	87.3	91.1	91.4	92.1	92.5	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1800	88.4	91.7	91.9	92.6	93.0	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1500	89.5	93.1	93.4	94.1	94.5	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	90.7	94.8	95.1	95.7	96.1	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	91.1	96.1	96.2	97.0	97.4	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	91.7	96.6	96.9	97.8	98.3	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	91.7	96.6	96.9	97.8	98.3	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	91.7	96.8	97.0	98.0	98.4	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	91.7	97.0	97.4	98.4	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	91.7	97.2	97.6	98.5	99.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	91.7	97.2	97.6	98.5	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	91.7	97.2	97.6	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.7	97.2	97.6	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.7	97.2	97.6	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.7	97.2	97.6	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

744

2
D
CLIMATOLGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	62.6	63.3	63.3	67.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 20000	73.3	73.7	73.6	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 18000	73.3	73.9	74.1	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 16000	73.3	73.9	74.1	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 14000	74.3	75.0	75.1	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000	77.2	78.0	78.1	78.4	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 10000	81.3	82.1	82.3	82.5	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 9000	82.8	83.6	83.7	84.0	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 8000	84.0	84.8	84.9	85.2	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 7000	84.8	85.6	85.8	86.0	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 6000	85.3	86.3	86.6	86.8	87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 5000	86.7	87.8	88.0	88.3	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 4500	87.6	88.7	89.0	89.2	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 4000	89.1	90.2	90.5	90.7	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 3500	89.4	90.5	90.7	91.0	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 3000	90.9	92.2	92.5	92.7	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 2500	92.6	94.2	94.5	94.8	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	94.2	95.8	96.1	96.4	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	95.2	96.8	97.2	97.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1500	95.6	97.2	97.6	98.0	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	96.1	97.7	98.1	98.7	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 100	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 0	96.4	98.0	98.4	98.9	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	64.7	64.8	64.8	64.8	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 20000	74.7	75.8	75.9	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 18000	74.7	75.8	75.9	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 16000	74.7	75.8	75.9	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 14000	75.7	76.7	76.9	76.9	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 12000	77.7	78.8	78.9	78.9	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 10000	81.7	82.9	83.1	83.1	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 9000	83.7	85.2	85.3	85.3	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 8000	85.2	87.0	87.1	87.1	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 7000	86.0	87.8	87.9	87.9	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000	87.6	89.7	90.1	90.1	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 5000	89.8	92.1	92.5	92.6	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 4500	90.2	92.5	92.9	93.0	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 4000	91.3	93.5	94.0	94.1	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3500	92.1	94.5	94.9	95.2	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000	93.5	96.1	96.5	96.9	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2500	94.8	97.4	97.8	98.3	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2000	94.9	97.6	98.0	98.4	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5
≥ 1800	95.0	97.8	98.3	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 1500	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 1200	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 1000	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 900	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 800	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 700	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 600	95.2	98.0	98.4	98.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 500	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	95.3	98.1	98.5	98.9	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 AF/ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10-14 HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/16	≥0
NO CEILING	71.2	71.2	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 20000	78.2	79.3	79.6	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 18000	78.8	79.8	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 16000	79.8	79.8	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 14000	80.2	81.3	81.6	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 12000	82.1	83.3	83.6	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 10000	86.6	87.9	88.2	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 9000	88.6	89.9	90.2	90.2	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 8000	90.1	91.9	92.2	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 7000	91.4	93.3	93.5	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 6000	92.6	94.8	95.0	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 5000	93.5	95.8	96.2	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 4500	93.7	96.0	96.4	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4000	93.8	96.2	96.6	96.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3500	94.0	96.4	96.8	97.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000	94.6	97.0	97.4	97.8	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2500	95.0	97.4	97.8	98.3	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 2000	95.2	97.7	98.1	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800	95.2	97.7	98.1	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1500	95.2	97.7	98.1	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.2	97.7	98.1	98.8	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT: WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

19514

HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	73.7	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 20000	79.4	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 18000	80.7	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 16000	80.1	80.6	80.9	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 14000	81.5	82.0	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 12000	84.3	84.8	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 10000	87.8	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 9000	89.8	90.6	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 8000	91.1	92.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 7000	92.3	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 6000	93.8	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 5000	94.2	95.4	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4500	94.4	95.6	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4000	95.7	96.4	96.9	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500	95.3	96.8	97.3	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000	95.9	97.3	97.8	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500	96.5	98.0	98.5	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2000	96.6	98.1	98.7	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800	96.6	98.1	98.7	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500	96.8	98.3	98.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	97.0	98.7	99.2	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.2	98.8	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
AFMELTAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 0	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	66.1	67.3	67.5	67.7	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 20000	73.6	74.8	75.1	75.3	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 18000	74.0	75.3	75.6	75.8	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 16000	74.1	75.4	75.7	75.9	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2
≥ 14000	75.4	76.7	76.9	77.1	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 12000	77.9	79.3	79.5	79.7	79.9	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 10000	82.1	83.7	83.9	84.2	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 9000	84.0	85.7	85.9	86.2	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7
≥ 8000	85.6	87.3	87.7	88.0	88.2	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 7000	86.8	88.6	88.9	89.2	89.5	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 6000	87.9	89.8	90.2	90.5	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 5000	89.0	91.0	91.5	91.8	92.1	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4500	89.4	91.5	91.9	92.3	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000	90.2	92.4	92.9	93.2	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 3500	90.5	92.8	93.2	93.6	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000	91.4	93.8	94.2	94.6	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2500	92.2	94.6	95.1	95.5	95.9	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2000	92.8	95.3	95.8	96.3	96.7	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800	93.0	95.6	96.1	96.5	96.9	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500	93.3	96.0	96.5	96.9	97.3	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200	93.7	96.5	97.0	97.5	97.9	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000	93.9	96.7	97.3	97.8	98.2	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	94.0	97.0	97.5	98.0	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	94.1	97.0	97.5	98.1	98.5	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	94.1	97.1	97.6	98.1	98.5	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0
≥ 600	94.1	97.1	97.7	98.2	98.7	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	94.2	97.3	97.9	98.4	98.9	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	94.2	97.4	98.0	98.6	99.1	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6
≥ 300	94.2	97.5	98.2	98.7	99.3	99.5	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	94.2	97.5	98.2	98.7	99.3	99.5	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 100	94.2	97.5	98.2	98.7	99.3	99.5	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0
≥ 0	94.2	97.5	98.2	98.7	99.3	99.5	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 5952

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2
 GLOBAL CLIMATOLOGY BRANCH
 USFETAC
 AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	63.4	64.5	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2
≥ 20000	67.3	68.5	68.5	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2
≥ 18000	67.5	68.7	68.7	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5
≥ 16000	67.7	69.0	69.0	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.8	69.8
≥ 14000	69.1	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
≥ 12000	71.6	72.8	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.7
≥ 10000	76.3	77.6	77.6	78.2	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.5
≥ 9000	78.8	80.0	80.0	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
≥ 8000	80.4	81.9	81.9	82.5	82.5	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8
≥ 7000	83.5	84.7	84.8	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.8	85.8
≥ 6000	84.8	86.2	86.4	87.2	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5
≥ 5000	86.4	87.8	88.0	88.8	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.1	89.1
≥ 4500	87.7	88.3	88.6	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8
≥ 4000	87.3	89.1	89.4	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6
≥ 3500	88.5	89.5	89.8	90.7	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0
≥ 3000	90.1	91.9	92.2	93.1	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4
≥ 2500	90.7	92.9	93.3	94.2	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5	94.5
≥ 2000	91.5	94.0	94.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7
≥ 1800	92.1	94.5	94.9	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4
≥ 1500	92.3	95.0	95.4	96.5	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9
≥ 1200	92.5	95.3	95.7	96.8	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3
≥ 1000	92.9	95.7	96.1	97.3	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8
≥ 900	93.1	96.0	96.4	97.6	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1
≥ 800	93.1	96.2	96.6	98.0	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
≥ 700	93.1	96.4	96.9	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7
≥ 600	93.1	96.6	97.3	98.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 500	93.4	96.9	97.6	98.9	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5
≥ 400	93.4	96.9	97.7	99.1	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7
≥ 300	93.4	96.9	97.7	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
≥ 200	93.4	96.9	97.7	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
≥ 100	93.4	96.9	97.7	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
≥ 0	93.4	96.9	97.7	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
USAF ETAC
AIR FATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	59.1	60.9	61.4	61.8	62.0	62.0	62.2	62.2	62.2	62.5	62.5	62.5	62.5	62.6	63.7	63.2
≥ 20000	62.6	64.7	65.2	65.6	65.7	65.7	66.0	66.0	66.0	66.3	66.3	66.3	66.5	66.5	66.9	67.1
≥ 18000	63.2	65.2	65.7	66.1	66.3	66.3	66.5	66.5	66.5	66.8	66.8	66.8	67.1	67.1	67.5	67.6
≥ 16000	63.2	65.2	65.7	66.1	66.3	66.3	66.5	66.5	66.5	66.8	66.8	66.8	67.1	67.1	67.5	67.6
≥ 14000	64.4	66.4	66.9	67.5	67.6	67.6	67.9	67.9	67.9	68.1	68.1	68.1	68.4	68.4	68.8	69.0
≥ 12000	66.4	69.0	69.5	70.2	70.3	70.3	70.6	70.6	70.6	70.8	70.8	70.8	71.1	71.1	71.5	71.6
≥ 10000	70.4	72.4	73.0	73.7	73.8	73.8	74.1	74.1	74.3	74.6	74.6	74.6	74.9	74.9	75.3	75.4
≥ 9000	73.1	75.1	75.7	76.3	76.5	76.5	76.7	76.7	77.0	77.3	77.3	77.3	77.6	77.6	78.7	78.1
≥ 8000	75.4	77.4	78.0	78.6	78.8	78.8	79.0	79.0	79.3	79.6	79.6	79.6	79.8	79.8	80.2	80.4
≥ 7000	79.6	81.7	82.3	82.9	83.1	83.1	83.3	83.3	83.6	83.9	83.9	83.9	84.1	84.1	84.5	84.7
≥ 6000	81.3	83.6	84.1	84.8	84.9	84.9	85.2	85.2	85.5	85.8	85.8	85.8	86.0	86.0	86.4	86.6
≥ 5000	82.3	84.5	85.1	85.8	85.9	85.9	86.2	86.2	86.4	86.7	86.7	86.7	87.0	87.0	87.4	87.7
≥ 4500	82.3	85.8	86.3	87.0	87.1	87.1	87.4	87.4	87.6	87.9	87.9	87.9	88.2	88.2	88.6	88.9
≥ 4000	83.5	86.4	87.1	87.8	87.9	87.9	88.2	88.2	88.4	88.7	88.7	88.7	89.0	89.0	89.4	89.6
≥ 3500	83.7	86.7	87.4	88.0	88.2	88.2	88.4	88.4	88.7	89.0	89.0	89.0	89.2	89.2	89.7	89.8
≥ 3000	85.1	88.0	88.7	89.5	89.7	89.7	89.9	89.9	90.2	90.5	90.5	90.5	90.7	90.7	91.1	91.3
≥ 2500	85.3	88.4	89.2	90.1	90.2	90.2	90.5	90.5	90.7	91.0	91.0	91.0	91.3	91.3	91.7	91.8
≥ 2000	85.5	88.7	89.7	90.5	90.6	90.6	90.9	90.9	91.1	91.5	91.5	91.5	91.8	91.8	92.2	92.3
≥ 1800	86.0	89.2	90.2	91.0	91.1	91.1	91.4	91.4	91.7	92.1	92.1	92.1	92.3	92.3	92.7	92.9
≥ 1500	86.3	89.5	90.5	91.3	91.4	91.5	91.8	91.8	92.1	92.5	92.5	92.5	92.7	92.7	93.1	93.3
≥ 1200	87.1	91.3	91.3	92.1	92.2	92.3	92.6	92.6	92.9	93.3	93.3	93.3	93.5	93.5	94.0	94.1
≥ 1000	87.6	91.1	91.9	92.7	92.9	93.0	93.3	93.3	93.5	94.0	94.0	94.0	94.2	94.2	94.6	94.8
≥ 900	87.9	91.5	92.6	93.4	93.5	93.7	94.0	94.0	94.2	94.6	94.6	94.6	94.9	94.9	95.3	95.4
≥ 800	88.0	91.8	92.9	93.8	94.0	94.1	94.4	94.4	94.6	95.0	95.0	95.0	95.3	95.3	95.7	95.8
≥ 700	88.2	91.9	93.0	94.0	94.2	94.4	94.6	94.8	95.0	95.4	95.4	95.4	95.7	95.7	96.1	96.2
≥ 600	88.6	92.5	93.7	94.9	95.2	95.3	95.7	95.8	96.1	96.5	96.5	96.5	96.8	96.8	97.2	97.3
≥ 500	88.6	92.5	93.7	94.9	95.3	95.4	95.8	96.1	96.4	96.8	96.8	96.8	97.0	97.0	97.6	97.7
≥ 400	88.6	92.6	93.8	95.0	95.4	95.7	96.1	96.4	96.6	97.2	97.2	97.2	97.4	97.4	98.0	98.1
≥ 300	88.6	92.9	94.2	95.7	96.1	96.4	97.0	97.3	97.7	98.3	98.3	98.3	98.5	98.5	99.1	99.2
≥ 200	88.6	92.9	94.2	95.8	96.2	96.5	97.2	97.6	98.0	98.5	98.7	98.7	98.9	98.9	99.5	99.7
≥ 100	88.6	92.9	94.2	95.8	96.2	96.5	97.2	97.6	98.0	98.5	98.7	98.7	98.9	98.9	99.5	100.0
≥ 0	88.6	92.9	94.2	95.8	96.2	96.5	97.2	97.6	98.0	98.5	98.7	98.7	98.9	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS

744

2
 FEDERAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0600-0600
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	51.6	54.8	55.4	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.3	56.3	56.6	56.6	56.7	57.4
≥ 20000	57.8	61.4	62.2	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.9	62.9	63.3	63.3	63.4	64.1
≥ 18000	58.1	61.7	62.2	62.8	62.8	62.8	62.9	62.9	62.9	62.9	63.2	63.2	63.6	63.6	63.7	64.4
≥ 16000	58.1	61.7	62.2	62.8	62.8	62.8	62.9	62.9	62.9	62.9	63.2	63.2	63.6	63.6	63.7	64.4
≥ 14000	59.3	62.6	63.2	63.7	63.7	63.7	63.8	63.8	63.8	63.8	64.1	64.1	64.5	64.5	64.7	65.3
≥ 12000	60.3	64.7	65.5	66.1	66.1	66.1	66.3	66.3	66.3	66.3	66.5	66.5	66.9	66.9	67.1	67.7
≥ 10000	66.1	70.6	71.4	72.0	72.0	72.0	72.2	72.2	72.3	72.3	72.6	72.6	73.0	73.0	73.1	73.8
≥ 9000	67.7	72.2	73.0	73.8	73.8	73.8	73.9	73.9	74.1	74.1	74.5	74.5	74.9	74.9	75.0	75.7
≥ 8000	69.5	73.9	74.7	75.5	75.5	75.5	75.7	75.7	75.8	75.8	76.2	76.2	76.6	76.6	76.7	77.4
≥ 7000	72.6	77.2	78.0	78.8	78.8	78.8	78.9	78.9	79.0	79.0	79.4	79.4	79.8	79.8	80.0	80.6
≥ 6000	73.2	78.5	79.3	80.1	80.1	80.1	80.2	80.2	80.4	80.4	80.8	80.8	81.2	81.2	81.3	82.0
≥ 5000	75.7	80.0	80.8	81.6	81.6	81.6	81.7	81.7	81.9	81.9	82.3	82.3	82.7	82.7	82.8	83.5
≥ 4500	75.7	80.8	81.6	82.4	82.4	82.4	82.5	82.5	82.7	82.7	83.1	83.1	83.5	83.5	83.6	84.3
≥ 4000	76.2	81.3	82.1	82.9	82.9	82.9	83.1	83.1	83.2	83.2	83.6	83.6	84.0	84.0	84.1	84.8
≥ 3500	76.5	81.6	82.4	83.2	83.2	83.2	83.3	83.3	83.5	83.5	83.9	83.9	84.3	84.3	84.4	85.1
≥ 3000	77.6	82.9	83.7	84.5	84.5	84.5	84.7	84.7	84.8	84.8	85.2	85.2	85.6	85.6	85.8	86.4
≥ 2500	78.1	83.5	84.3	85.1	85.1	85.1	85.2	85.2	85.5	85.5	85.9	85.9	86.3	86.3	86.4	87.1
≥ 2000	78.9	84.4	85.2	86.0	86.0	86.0	86.3	86.4	86.4	86.7	86.7	87.1	87.1	87.5	87.5	88.3
≥ 1800	79.2	84.7	85.5	86.4	86.6	86.6	87.0	87.0	87.2	87.2	87.6	87.6	88.0	88.0	88.2	88.8
≥ 1500	79.4	84.9	85.8	86.7	86.8	87.2	87.5	87.5	87.8	87.8	88.2	88.2	88.6	88.6	88.7	89.4
≥ 1200	80.1	85.8	86.7	87.6	87.8	88.2	88.4	88.4	88.7	88.7	89.1	89.1	89.5	89.5	89.7	90.3
≥ 1000	81.3	87.0	87.9	88.8	89.1	89.5	89.8	89.8	90.1	90.1	90.5	90.5	90.9	90.9	91.0	91.7
≥ 900	81.6	87.8	88.7	89.7	89.9	90.3	90.6	90.6	90.9	90.9	91.3	91.3	91.7	91.7	91.8	92.5
≥ 800	81.7	88.2	89.1	90.1	90.3	90.7	91.0	91.0	91.3	91.3	91.7	91.7	92.1	92.1	92.2	92.9
≥ 700	82.1	88.6	89.5	90.5	90.7	91.3	91.7	91.7	91.9	91.9	92.3	92.3	92.7	92.7	92.9	93.5
≥ 600	82.1	88.8	89.8	90.9	91.1	91.7	92.1	92.1	92.3	92.3	92.7	92.7	93.1	93.1	93.3	94.0
≥ 500	82.3	89.2	90.2	91.4	92.1	92.7	93.1	93.1	93.4	93.4	93.8	93.8	94.2	94.2	94.4	95.0
≥ 400	82.3	89.2	90.2	91.7	92.5	93.1	93.5	93.8	94.1	94.2	94.8	94.8	95.2	95.2	95.3	96.0
≥ 300	82.7	89.7	90.6	92.1	93.0	93.7	94.6	95.0	95.3	95.6	96.1	96.1	96.5	96.5	96.6	97.4
≥ 200	82.7	89.7	90.6	92.1	93.1	93.8	94.8	95.2	95.4	95.7	96.4	96.4	96.8	97.0	97.2	98.4
≥ 100	82.7	89.7	90.6	92.1	93.1	93.8	94.8	95.2	95.4	95.7	96.4	96.4	96.9	97.2	97.6	99.2
≥ 0	82.7	89.7	90.6	92.1	93.1	93.8	94.8	95.2	95.4	95.7	96.4	96.4	96.9	97.2	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 514 HECTOR APT FARGO ND

73-80

AGE

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	59.1	59.4	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 20000	64.2	65.6	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 18000	64.2	65.9	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 16000	64.2	65.9	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 14000	65.5	67.1	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 12000	67.2	68.8	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 10000	72.2	74.2	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 9000	73.5	75.7	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 8000	74.3	76.6	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 7000	76.1	78.4	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 6000	77.4	79.7	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 5000	78.9	81.2	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500	79.4	81.7	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	79.7	82.0	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3500	80.4	82.7	83.2	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3000	81.7	84.1	84.7	84.9	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2500	82.7	85.1	85.6	85.9	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 2000	85.1	88.0	88.7	89.1	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800	85.2	88.3	89.0	89.4	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1500	86.6	90.1	90.7	91.1	91.5	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1200	87.6	91.1	91.8	92.2	92.6	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1000	88.7	92.3	93.0	93.4	93.8	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 900	89.1	93.1	93.8	94.2	94.9	94.9	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	89.4	93.4	94.4	94.8	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 700	89.4	93.5	94.5	94.9	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 600	89.5	93.8	94.9	95.6	96.2	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 500	89.7	94.4	96.0	96.6	97.4	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 400	89.8	94.5	96.1	96.8	97.6	97.7	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 300	89.8	94.6	96.2	96.9	97.8	97.8	98.0	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	89.8	94.6	96.2	96.9	97.8	97.8	98.1	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100	89.8	94.6	96.2	96.9	97.8	97.8	98.1	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0	89.8	94.6	96.2	96.9	97.8	97.8	98.1	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 741

2

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATL. WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	53.7	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000	52.5	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000	62.8	63.8	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000	62.8	63.8	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000	63.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 12000	65.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 10000	70.6	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 9000	72.2	73.7	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 8000	73.9	75.4	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 7000	75.7	77.4	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 6000	77.6	79.3	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 5000	81.0	81.7	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500	82.9	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000	83.2	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500	86.3	86.0	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3000	86.6	88.3	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2500	90.1	90.1	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2000	91.9	91.9	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1800	92.9	92.9	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1500	94.1	94.1	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	95.3	95.3	95.8	96.2	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	95.7	95.7	96.2	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	96.1	96.1	96.8	97.2	97.4	97.4	97.7	97.8	97.8	97.8	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	96.2	96.2	96.9	97.3	97.7	97.7	98.0	98.1	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	96.5	96.5	97.2	97.6	98.0	98.0	98.3	98.5	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	96.8	96.8	97.4	97.8	98.3	98.3	98.5	98.8	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3
≥ 500	96.8	96.8	97.4	97.8	98.3	98.4	98.7	98.9	98.9	98.9	99.3	99.5	99.5	99.5	99.5	99.5
≥ 400	96.8	96.8	97.4	97.8	98.3	98.5	98.8	99.1	99.1	99.1	99.5	99.6	99.6	99.6	99.6	99.6
≥ 300	96.8	96.8	97.4	97.8	98.3	98.5	99.1	99.3	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200	96.8	96.8	97.4	97.8	98.3	98.5	99.1	99.3	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	96.8	96.8	97.4	97.8	98.3	98.5	99.1	99.3	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	96.8	96.8	97.4	97.8	98.3	98.5	99.1	99.3	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

744

USAF ETAC FORM JUL 60 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATOLOGY BRANCH
METAC
WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	57.1	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 20000	65.1	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 18000	65.2	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 16000	65.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 14000	66.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 12000	68.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 10000	73.8	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 9000	76.6	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000	77.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 7000	79.4	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 6000	82.1	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 5000	84.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 4500	85.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 4000	87.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3500	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1
≥ 3000	90.6	92.7	92.7	92.7	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 2500	91.4	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
≥ 2000	92.9	96.0	96.0	96.4	96.5	96.5	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800	93.3	96.5	96.5	96.9	97.0	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500	94.0	97.2	97.2	97.6	97.7	97.7	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	94.4	97.6	97.6	98.0	98.1	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	94.5	97.7	97.7	98.1	98.3	98.4	98.5	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	94.6	97.8	97.8	98.3	98.4	98.5	98.7	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	94.6	97.8	97.8	98.3	98.4	98.5	98.8	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	94.6	97.8	98.0	98.4	98.5	98.7	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	94.6	97.8	98.0	98.4	98.5	98.7	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.6	97.8	98.0	98.4	98.5	98.8	99.1	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

744

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	61.9	62.2	62.4	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9
≥ 20000	68.8	69.6	69.8	69.9	71.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
≥ 18000	69.1	69.8	69.9	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4
≥ 16000	69.4	71.2	70.3	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8
≥ 14000	70.2	71.0	71.1	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.6
≥ 12000	73.1	73.9	74.1	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.6
≥ 10000	77.3	78.1	78.2	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.8
≥ 9000	80.0	80.8	80.9	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.5
≥ 8000	80.8	81.7	81.9	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 7000	83.5	84.4	84.5	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1
≥ 6000	86.4	87.4	87.5	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0
≥ 5000	88.3	89.2	89.4	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9
≥ 4500	88.6	89.5	89.7	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2
≥ 4000	90.5	91.4	91.5	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.1
≥ 3500	91.3	92.5	92.6	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1
≥ 3000	92.5	93.8	94.2	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9
≥ 2500	93.0	94.5	94.9	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8
≥ 2000	93.1	95.2	95.6	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5
≥ 1800	93.3	95.4	95.8	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8
≥ 1500	93.8	96.1	96.6	97.0	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 1200	94.6	96.9	97.4	97.8	98.3	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
≥ 1000	94.9	97.2	97.7	98.3	98.7	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
≥ 900	94.9	97.2	97.7	98.3	98.7	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
≥ 800	95.1	97.3	97.8	98.4	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3
≥ 700	95.0	97.3	97.8	98.4	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3
≥ 600	95.2	97.4	98.0	98.5	98.9	99.2	99.2	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6
≥ 500	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.9
≥ 400	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.9
≥ 300	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 200	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	95.2	97.6	98.1	98.7	99.2	99.5	99.5	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 VECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	65.6	65.7	65.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000	72.2	72.6	72.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 18000	72.3	72.7	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 16000	72.3	72.7	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 14000	73.1	73.5	73.7	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 12000	74.7	75.1	75.3	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 10000	79.8	80.2	80.4	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 9000	82.0	82.4	82.5	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 8000	83.3	83.9	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 7000	84.9	85.5	85.6	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 6000	87.5	88.6	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 5000	88.8	89.9	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 4500	89.2	90.5	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4000	90.6	92.1	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3500	91.1	92.9	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000	92.7	94.5	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2500	93.7	95.6	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2000	94.2	96.5	96.6	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	94.5	96.8	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1500	94.5	96.9	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	94.6	97.0	97.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000	95.1	97.4	97.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	95.1	97.4	97.6	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	95.1	97.4	97.6	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	95.0	97.4	97.6	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	95.4	98.1	98.3	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	95.6	98.3	98.4	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	95.6	98.4	98.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.6	98.4	98.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.6	98.4	98.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.6	98.4	98.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.6	98.4	98.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 JUL 14 HECTOR APT FARGO ND

73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	58.8	60.0	60.2	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8	60.9
≥ 20000	65.0	66.5	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.4
≥ 18000	65.3	66.7	66.9	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.6
≥ 16000	65.4	66.8	67.0	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.7
≥ 14000	66.4	67.9	68.1	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.8
≥ 12000	68.6	70.1	70.3	70.7	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.1
≥ 10000	73.3	75.0	75.3	75.7	75.7	75.7	75.8	75.8	75.8	75.9	75.9	75.9	75.9	76.0	76.0	76.1
≥ 9000	75.5	77.2	77.5	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.3	78.4
≥ 8000	76.9	78.8	79.7	79.4	79.5	79.5	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.8	79.8	79.9
≥ 7000	79.4	81.3	81.6	82.0	82.0	82.0	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.3	82.3	82.4
≥ 6000	81.4	83.4	83.7	84.1	84.2	84.2	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.5	84.5	84.6
≥ 5000	83.1	85.1	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.2	86.2	86.2	86.3	86.4
≥ 4500	83.6	85.8	86.2	86.6	86.7	86.7	86.7	86.7	86.8	86.8	86.9	86.9	86.9	86.9	87.0	87.1
≥ 4000	84.9	87.1	87.5	87.9	88.0	88.0	88.0	88.1	88.1	88.1	88.2	88.2	88.3	88.3	88.4	88.5
≥ 3500	85.6	87.9	88.2	88.6	88.7	88.7	88.8	88.8	88.8	88.9	88.9	88.9	88.9	89.0	89.0	89.1
≥ 3000	87.1	89.5	89.9	90.4	90.5	90.5	90.6	90.6	90.6	90.7	90.7	90.7	90.8	90.8	90.9	91.0
≥ 2500	87.9	90.5	90.9	91.4	91.5	91.5	91.6	91.6	91.7	91.8	91.9	91.9	91.9	91.9	92.0	92.1
≥ 2000	88.8	91.8	92.3	92.9	93.0	93.1	93.1	93.2	93.2	93.4	93.4	93.4	93.5	93.5	93.6	93.7
≥ 1800	89.2	92.3	92.8	93.4	93.5	93.6	93.7	93.7	93.8	93.9	93.9	93.9	94.0	94.0	94.1	94.2
≥ 1500	89.8	93.0	93.5	94.1	94.3	94.4	94.5	94.6	94.6	94.8	94.8	94.8	94.9	94.9	95.0	95.1
≥ 1200	90.4	93.7	94.2	94.9	95.1	95.2	95.3	95.4	95.4	95.6	95.6	95.6	95.7	95.7	95.8	95.9
≥ 1000	90.9	94.3	94.8	95.5	95.7	95.9	96.0	96.0	96.1	96.3	96.3	96.3	96.4	96.4	96.5	96.6
≥ 900	91.2	94.6	95.2	95.9	96.2	96.3	96.4	96.5	96.6	96.8	96.8	96.8	96.9	96.9	97.0	97.1
≥ 800	91.3	94.8	95.4	96.2	96.4	96.6	96.7	96.8	96.9	97.1	97.1	97.1	97.2	97.2	97.3	97.4
≥ 700	91.3	94.9	95.6	96.3	96.6	96.7	96.9	97.1	97.1	97.3	97.4	97.4	97.4	97.4	97.5	97.6
≥ 600	91.5	95.2	95.9	96.8	97.0	97.2	97.4	97.6	97.6	97.8	97.9	97.9	98.0	98.0	98.1	98.2
≥ 500	91.6	95.4	96.2	97.0	97.4	97.6	97.8	98.0	98.1	98.3	98.4	98.4	98.5	98.5	98.6	98.7
≥ 400	91.6	95.5	96.3	97.1	97.5	97.8	98.0	98.2	98.3	98.6	98.7	98.7	98.8	98.8	98.9	99.0
≥ 300	91.6	95.6	96.4	97.3	97.7	98.0	98.4	98.6	98.7	99.1	99.1	99.1	99.2	99.2	99.4	99.5
≥ 200	91.6	95.6	96.4	97.3	97.8	98.1	98.4	98.7	98.8	99.1	99.3	99.3	99.4	99.4	99.5	99.8
≥ 100	91.6	95.6	96.4	97.3	97.8	98.1	98.4	98.7	98.8	99.1	99.3	99.3	99.4	99.4	99.6	99.9
≥ 0	91.6	95.6	96.4	97.3	97.8	98.1	98.4	98.7	98.8	99.1	99.3	99.3	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 5952

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14-14
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

SLP

MONTH
0000-0200
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	66.1	66.7	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	67.2	67.2	67.5	67.5	67.6	67.8
≥ 20000	66.5	69.0	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.6	69.6	69.9	69.9	70.0	70.1
≥ 18000	68.6	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.7	69.7	70.0	70.0	70.1	70.3
≥ 16000	68.6	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.7	69.7	70.0	70.0	70.1	70.3
≥ 14000	69.3	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.4	70.4	70.7	70.7	70.8	71.0
≥ 12000	70.8	71.4	71.5	71.5	71.5	71.5	71.5	71.7	71.7	71.7	71.9	71.9	72.2	72.2	72.4	72.5
≥ 10000	74.0	74.6	74.7	74.7	74.7	74.7	74.7	74.9	74.9	74.9	75.1	75.1	75.4	75.4	75.6	75.7
≥ 9000	75.7	76.3	76.4	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.8	76.8	77.1	77.1	77.2	77.4
≥ 8000	75.8	76.5	76.8	76.8	76.8	76.8	76.8	76.9	76.9	76.9	77.2	77.2	77.5	77.5	77.6	77.9
≥ 7000	77.9	78.6	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.3	79.3	79.6	79.6	79.7	79.9
≥ 6000	80.4	81.3	81.5	81.5	81.5	81.5	81.5	81.7	81.7	81.7	81.9	81.9	82.2	82.2	82.4	82.5
≥ 5000	81.4	82.2	82.5	82.5	82.5	82.5	82.5	82.6	82.6	82.6	82.9	82.9	83.2	83.2	83.3	83.5
≥ 4500	82.4	83.2	83.5	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.9	83.9	84.2	84.2	84.4	84.6
≥ 4000	83.3	84.2	84.4	84.4	84.4	84.4	84.4	84.6	84.6	84.6	84.9	84.9	85.1	85.1	85.4	85.6
≥ 3500	84.3	84.9	85.1	85.1	85.1	85.1	85.1	85.3	85.3	85.3	85.6	85.6	85.8	85.8	86.1	86.3
≥ 3000	85.6	86.4	86.7	86.8	86.8	86.8	86.8	86.9	86.9	86.9	87.2	87.2	87.5	87.5	87.8	87.9
≥ 2500	87.2	88.1	88.3	88.6	88.6	88.6	88.6	88.8	88.8	88.8	89.0	89.0	89.3	89.3	89.6	89.7
≥ 2000	89.0	89.9	90.4	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.3	91.3	91.5	91.5	91.8	91.9
≥ 1800	90.0	91.0	91.5	91.9	91.9	91.9	91.9	92.1	92.1	92.1	92.4	92.4	92.6	92.6	92.9	93.1
≥ 1500	90.6	91.5	92.1	92.5	92.6	92.6	92.6	92.8	92.8	92.8	93.1	93.1	93.3	93.3	93.6	93.8
≥ 1200	91.5	92.8	93.5	93.9	94.0	94.0	94.0	94.2	94.2	94.2	94.4	94.4	94.7	94.7	95.0	95.1
≥ 1000	92.4	93.6	94.4	95.0	95.1	95.1	95.1	95.3	95.3	95.3	95.6	95.6	95.8	95.8	96.1	96.3
≥ 900	92.9	94.2	95.0	95.6	95.7	95.7	95.7	95.8	95.8	95.8	96.1	96.1	96.4	96.4	96.7	96.8
≥ 800	93.6	95.0	95.8	96.4	96.5	96.5	96.5	96.7	96.7	96.7	96.9	96.9	97.2	97.2	97.5	97.6
≥ 700	94.2	96.0	96.8	97.5	97.6	97.6	97.6	97.8	97.8	97.8	98.1	98.1	98.3	98.3	98.6	98.8
≥ 600	94.2	96.0	96.8	97.5	97.6	97.6	97.6	97.8	97.8	97.8	98.1	98.1	98.3	98.3	98.6	98.8
≥ 500	94.2	96.3	97.1	97.8	97.9	97.9	97.9	98.1	98.2	98.2	98.3	98.6	98.6	98.9	98.9	99.3
≥ 400	94.2	96.3	97.1	97.9	98.3	98.3	98.3	98.5	98.6	98.6	98.8	99.0	99.0	99.3	99.3	99.7
≥ 300	94.2	96.3	97.1	97.9	98.3	98.3	98.3	98.5	98.6	98.6	98.8	99.0	99.0	99.3	99.3	99.9
≥ 200	94.2	96.3	97.1	97.9	98.3	98.3	98.3	98.5	98.6	98.6	98.8	99.0	99.2	99.4	99.4	100.0
≥ 100	94.2	96.3	97.1	97.9	98.3	98.3	98.3	98.5	98.6	98.6	98.8	99.0	99.2	99.4	99.4	100.0
≥ 0	94.2	96.3	97.1	97.9	98.3	98.3	98.3	98.5	98.6	98.6	98.8	99.0	99.2	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14714 HECTOP APT FARGO ND

73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	63.3	64.7	64.7	64.9	64.9	64.9	65.0	65.3	65.3	65.4	65.7	65.7	65.8	66.0	66.0	66.0
≥ 20000	65.7	66.7	66.7	66.8	66.8	66.8	66.9	67.2	67.2	67.4	67.6	67.6	67.8	67.9	67.9	67.9
≥ 18000	65.8	66.8	66.8	66.9	66.9	66.9	67.1	67.4	67.4	67.5	67.8	67.8	67.9	68.1	68.1	68.1
≥ 16000	65.8	66.8	66.8	66.9	66.9	66.9	67.1	67.4	67.4	67.5	67.8	67.8	67.9	68.1	68.1	68.1
≥ 14000	66.7	67.6	67.6	67.8	67.8	67.8	67.9	68.2	68.2	68.3	68.6	68.6	68.8	68.9	68.9	68.9
≥ 12000	68.2	69.2	69.2	69.3	69.3	69.3	69.4	69.7	69.7	69.9	70.1	70.1	70.4	70.6	70.6	70.6
≥ 10000	70.6	71.5	71.5	71.7	71.7	71.7	71.8	72.1	72.1	72.2	72.5	72.5	72.8	72.9	72.9	72.9
≥ 9000	72.6	73.6	73.6	73.8	73.8	73.8	73.9	74.2	74.2	74.3	74.6	74.6	74.9	75.0	75.0	75.0
≥ 8000	74.2	75.1	75.1	75.3	75.3	75.3	75.4	75.7	75.7	75.8	76.1	76.1	76.4	76.5	76.5	76.5
≥ 7000	76.4	77.4	77.4	77.5	77.5	77.5	77.6	77.9	77.9	78.1	78.3	78.3	78.6	78.8	78.8	78.8
≥ 6000	78.8	79.7	79.7	79.9	79.9	79.9	80.0	80.3	80.3	80.4	80.7	80.7	81.0	81.1	81.1	81.1
≥ 5000	79.2	80.1	80.1	80.3	80.3	80.3	80.4	80.7	80.7	80.8	81.1	81.1	81.4	81.5	81.5	81.5
≥ 4500	80.0	81.0	81.0	81.1	81.1	81.1	81.3	81.5	81.5	81.7	81.9	81.9	82.2	82.4	82.4	82.4
≥ 4000	80.7	81.7	81.7	81.8	81.8	81.8	81.9	82.2	82.2	82.4	82.6	82.6	82.9	83.1	83.1	83.1
≥ 3500	81.1	82.2	82.2	82.4	82.4	82.4	82.5	82.8	82.8	82.9	83.2	83.2	83.5	83.6	83.6	83.6
≥ 3000	82.4	83.5	83.5	83.6	83.6	83.6	83.8	84.0	84.0	84.2	84.4	84.4	84.7	84.9	84.9	84.9
≥ 2500	84.2	85.3	85.3	85.4	85.4	85.4	85.6	85.8	85.8	86.0	86.3	86.3	86.5	86.7	86.7	86.7
≥ 2000	86.3	87.6	87.6	87.8	87.8	87.8	87.9	88.2	88.2	88.3	88.6	88.6	88.9	89.0	89.0	89.0
≥ 1800	87.5	88.9	88.9	89.0	89.0	89.0	89.2	89.4	89.4	89.6	89.9	89.9	90.1	90.3	90.3	90.3
≥ 1500	88.2	89.6	89.6	89.7	89.7	89.7	89.9	90.1	90.1	90.3	90.6	90.6	90.8	91.0	91.0	91.0
≥ 1200	90.3	91.7	91.9	92.1	92.1	92.1	92.2	92.5	92.5	92.6	92.9	92.9	93.2	93.3	93.3	93.3
≥ 1000	91.3	92.8	93.2	93.3	93.3	93.3	93.8	94.0	94.0	94.2	94.4	94.4	94.7	94.9	94.9	94.9
≥ 900	91.5	93.1	93.5	93.6	93.6	93.6	94.0	94.3	94.3	94.4	94.7	94.7	95.0	95.1	95.1	95.1
≥ 800	91.7	93.2	93.6	93.8	93.8	93.8	94.2	94.4	94.4	94.6	94.9	94.9	95.1	95.3	95.3	95.3
≥ 700	92.1	93.8	94.2	94.3	94.3	94.3	94.7	95.0	95.0	95.1	95.4	95.4	95.7	95.8	95.8	95.8
≥ 600	92.4	94.0	94.4	94.6	94.6	94.6	95.0	95.3	95.3	95.4	95.7	95.7	96.0	96.1	96.1	96.1
≥ 500	92.6	94.6	95.4	95.7	95.7	95.8	96.5	96.8	96.8	96.9	97.2	97.2	97.5	97.6	97.6	97.6
≥ 400	92.6	94.7	95.7	96.3	96.4	96.5	97.2	97.5	97.5	97.6	97.9	97.9	98.2	98.3	98.3	98.3
≥ 300	92.6	94.7	95.7	96.5	96.8	96.9	97.6	97.9	97.9	98.1	98.3	98.3	98.6	98.8	98.8	99.2
≥ 200	92.6	94.7	95.7	96.7	96.9	97.1	97.8	98.1	98.1	98.2	98.5	98.5	98.8	98.9	99.0	99.4
≥ 100	92.6	94.7	95.7	96.7	96.9	97.1	97.8	98.1	98.1	98.2	98.5	98.5	98.8	98.9	99.0	99.6
≥ 0	92.6	94.7	95.7	96.7	96.9	97.1	97.8	98.1	98.1	98.2	98.5	98.5	98.8	98.9	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
FEDERAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-60

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅓	≥⅓	≥¼	≥0
NO CEILING	53.3	55.4	55.6	55.8	55.8	55.8	56.1	56.1	56.3	56.4	56.4	56.4	56.5	56.7	57.1	57.1
≥ 20000	57.9	60.1	60.4	60.8	60.8	60.8	61.0	61.0	61.1	61.3	61.3	61.3	61.4	61.5	61.9	61.9
≥ 18000	57.9	60.1	60.4	60.8	60.8	60.8	61.1	61.1	61.3	61.4	61.4	61.4	61.5	61.7	62.1	62.1
≥ 16000	57.9	60.1	60.4	60.8	60.8	60.8	61.1	61.1	61.3	61.4	61.4	61.4	61.5	61.7	62.1	62.1
≥ 14000	58.3	60.6	60.8	61.3	61.3	61.3	61.5	61.5	61.7	61.8	61.8	61.8	61.9	62.1	62.5	62.5
≥ 12000	60.0	62.2	62.5	62.9	62.9	62.9	63.2	63.2	63.3	63.5	63.5	63.5	63.6	63.8	64.2	64.2
≥ 10000	62.9	65.3	65.6	66.0	66.0	66.0	66.3	66.3	66.4	66.5	66.5	66.5	66.7	66.8	67.2	67.2
≥ 9000	64.2	66.7	66.9	67.4	67.4	67.4	67.6	67.6	67.8	67.9	67.9	67.9	68.1	68.2	68.6	68.6
≥ 8000	66.0	68.5	68.8	69.2	69.2	69.2	69.4	69.4	69.6	69.7	69.7	69.7	69.9	70.0	70.4	70.4
≥ 7000	69.7	72.4	72.6	73.1	73.3	73.3	73.6	73.6	73.8	73.9	73.9	73.9	74.0	74.2	74.6	74.6
≥ 6000	71.9	74.7	75.0	75.4	75.7	75.7	76.0	76.0	76.1	76.3	76.3	76.3	76.4	76.5	76.9	76.9
≥ 5000	72.9	75.7	76.0	76.4	76.7	76.7	76.9	76.9	77.1	77.2	77.2	77.2	77.4	77.5	77.9	77.9
≥ 4500	73.5	76.5	76.9	77.4	77.6	77.6	78.1	78.1	78.2	78.3	78.3	78.3	78.5	78.6	79.0	79.0
≥ 4000	74.7	77.8	78.2	78.6	78.9	78.9	79.3	79.3	79.4	79.6	79.6	79.6	79.7	79.9	80.3	80.3
≥ 3500	75.0	78.1	78.5	78.9	79.2	79.2	79.6	79.6	79.7	79.9	79.9	79.9	80.0	80.1	80.6	80.6
≥ 3000	75.4	78.5	78.9	79.3	79.6	79.6	80.0	80.0	80.1	80.3	80.3	80.3	80.4	80.6	81.0	81.0
≥ 2500	76.3	79.4	79.9	80.3	80.6	80.6	81.0	81.0	81.1	81.3	81.3	81.3	81.4	81.5	81.9	81.9
≥ 2000	77.4	80.7	81.1	81.5	81.8	81.8	82.2	82.2	82.4	82.5	82.5	82.5	82.6	82.8	83.2	83.2
≥ 1800	78.6	81.9	82.4	82.8	83.1	83.1	83.6	83.6	83.8	83.9	83.9	83.9	84.0	84.2	84.6	84.6
≥ 1500	80.4	83.9	84.3	84.7	85.0	85.0	85.6	85.6	85.7	85.8	85.8	85.8	86.0	86.1	86.5	86.5
≥ 1200	82.2	85.7	86.1	86.5	86.8	86.9	87.5	87.5	87.6	87.8	87.8	87.8	87.9	88.1	88.5	88.5
≥ 1000	84.2	88.1	88.5	88.9	89.2	89.4	90.1	90.1	90.3	90.6	90.6	90.6	90.7	90.8	91.3	91.3
≥ 900	85.3	89.0	89.4	89.9	90.1	90.4	91.1	91.1	91.3	91.5	91.5	91.5	91.7	91.8	92.2	92.2
≥ 800	85.7	89.7	90.1	90.7	91.0	91.3	91.9	91.9	92.1	92.4	92.4	92.4	92.5	92.6	93.1	93.1
≥ 700	86.7	90.8	91.4	91.9	92.4	92.6	93.3	93.3	93.5	93.8	93.8	93.8	93.9	94.0	94.4	94.4
≥ 600	87.4	91.9	92.5	93.2	93.6	93.9	94.6	94.7	94.9	95.1	95.1	95.1	95.3	95.4	95.8	95.8
≥ 500	87.4	92.2	93.1	93.8	94.2	94.4	95.1	95.3	95.4	95.7	95.7	95.7	95.8	96.0	96.4	96.4
≥ 400	87.5	92.4	93.2	93.9	94.3	94.6	95.7	95.8	96.0	96.3	96.3	96.3	96.4	96.5	96.9	96.9
≥ 300	87.6	92.6	93.5	94.2	94.7	95.0	96.1	96.3	96.4	96.9	96.9	96.9	97.1	97.4	97.8	98.2
≥ 200	87.6	92.6	93.5	94.2	94.9	95.1	96.4	96.7	96.8	97.4	97.4	97.4	97.5	97.6	98.2	98.6
≥ 100	87.6	92.6	93.5	94.2	94.9	95.1	96.4	96.7	96.8	97.4	97.5	97.5	97.6	97.9	98.6	99.0
≥ 0	87.6	92.6	93.5	94.2	94.9	95.1	96.4	96.7	96.8	97.4	97.5	97.5	97.6	97.9	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 720

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1114 HECTOR APT FARGO ND

73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	55.1	55.7	55.8	55.8	55.8	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000	60.3	60.8	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 18000	60.6	61.1	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 16000	60.7	61.3	61.4	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 14000	61.1	61.7	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 12000	61.5	62.1	62.2	62.2	62.2	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 10000	63.6	64.2	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 9000	65.8	66.5	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 8000	68.3	69.0	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 7000	70.7	71.5	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 6000	72.4	73.2	73.3	73.3	73.3	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 5000	72.6	73.9	74.0	74.0	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	72.8	74.0	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.4
≥ 4000	73.6	75.0	75.1	75.1	75.1	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4
≥ 3500	74.0	75.4	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8
≥ 3000	74.9	76.3	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.7	76.7	76.7	76.7
≥ 2500	77.2	78.6	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0
≥ 2000	80.4	81.9	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.4	82.4	82.5	82.5	82.5	82.5
≥ 1800	81.7	83.2	83.5	83.5	83.5	83.6	83.8	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0	84.0
≥ 1500	84.2	86.0	86.3	86.3	86.3	86.4	86.5	86.7	86.7	86.7	86.8	86.8	86.8	86.9	86.9	86.9
≥ 1200	87.2	89.3	89.7	89.9	90.3	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.8	90.8	90.8	90.8
≥ 1000	88.5	90.8	91.5	91.7	92.1	92.2	92.4	92.4	92.4	92.5	92.5	92.5	92.6	92.6	92.6	92.6
≥ 900	89.3	92.1	92.8	92.9	93.3	93.5	93.6	93.6	93.6	93.8	93.8	93.8	93.9	93.9	93.9	93.9
≥ 800	89.7	92.6	93.3	93.5	93.9	94.0	94.2	94.2	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4
≥ 700	89.7	93.3	94.0	94.9	95.3	95.4	95.6	95.6	95.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8
≥ 600	90.4	94.2	95.0	96.0	96.5	96.7	96.8	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1
≥ 500	90.6	94.9	95.7	96.8	97.6	97.8	97.9	97.9	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2
≥ 400	90.6	94.9	95.7	96.8	97.8	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.5	98.5	98.5	98.5
≥ 300	90.7	95.3	96.3	97.4	98.5	98.9	99.2	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
≥ 200	90.7	95.3	96.3	97.4	98.5	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.6	99.6	99.7	99.7
≥ 100	90.7	95.3	96.3	97.4	98.5	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.6	99.7	99.7	99.9
≥ 0	90.7	95.3	96.3	97.4	98.5	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 770

2

2

SLP

MONDAY

1257-1460
HOURS (L.S.T.)

TOTAL NUMBER OF OBSERVATIONS _____ 720

2

1

73-20

562

STATION

STATION NAME

YEAR 1

MONTH

1900-1700
HOURS (L.S.T.)

1

TOTAL NUMBER OF OBSERVATIONS 72

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH
 USAF ETAC
 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOP APT FARGO ND

73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 18000	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 16000	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 14000	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 12000	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 10000	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 9500	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 8000	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 7000	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 6000	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 5000	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 4500	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3500	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 3000	89.9	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500	91.3	92.1	92.1	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 2000	92.2	93.8	93.8	94.0	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1800	92.7	94.4	94.6	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	93.3	94.9	95.0	95.3	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1200	93.9	95.4	95.8	96.3	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	94.2	95.7	96.4	96.9	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	94.3	96.1	96.9	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 800	94.4	96.3	97.1	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	94.4	96.3	97.1	97.9	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 600	94.5	96.5	97.4	98.2	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	94.7	96.7	97.6	98.5	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	94.7	96.7	97.8	98.6	99.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	94.7	96.7	97.8	98.6	99.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	94.7	96.7	97.8	98.6	99.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	94.7	96.7	97.8	98.6	99.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	94.7	96.7	97.8	98.6	99.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 722

AL CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14 14

HECTOR APT FARGO ND

73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 20000	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 18000	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 16000	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 14000	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 12000	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 10000	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 9000	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 8000	75.3	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 7000	73.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 6000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000	82.9	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 4500	84.4	85.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4000	86.7	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 3500	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 3000	88.6	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500	91.0	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 2000	92.4	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1800	92.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500	92.9	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1200	94.1	95.4	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1000	94.6	96.1	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	94.9	96.5	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	95.3	96.9	97.6	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700	95.4	97.4	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	95.7	97.8	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	95.7	97.8	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	95.7	97.8	98.6	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	95.7	97.8	98.6	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	95.7	97.8	98.6	99.0	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	95.7	97.8	98.6	99.0	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	95.7	97.8	98.6	99.0	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
 FEDERAL CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIRCRAFT SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

SLP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	60.2	60.8	60.9	60.9	60.9	60.9	61.0	61.0	61.1	61.1	61.2	61.2	61.2	61.2	61.3	61.4
≥ 20000	64.0	64.7	64.8	64.8	64.8	64.8	64.9	64.9	64.9	65.0	65.1	65.1	65.1	65.1	65.2	65.2
≥ 18000	64.2	64.8	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.3	65.3	65.4
≥ 16000	64.2	64.9	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.3	65.3	65.4
≥ 14000	64.9	65.5	65.6	65.6	65.6	65.6	65.7	65.8	65.8	65.8	65.9	65.9	66.0	66.0	66.1	66.1
≥ 12000	66.2	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.4	67.4
≥ 10000	68.8	69.4	69.5	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.8	69.8	69.9	69.9	70.0	70.0
≥ 9000	70.3	71.0	71.1	71.2	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.5	71.5	71.6	71.6
≥ 8000	71.6	72.3	72.4	72.5	72.5	72.5	72.6	72.6	72.6	72.7	72.7	72.7	72.8	72.8	72.9	72.9
≥ 7000	74.0	74.8	75.0	75.0	75.1	75.1	75.1	75.2	75.2	75.2	75.3	75.3	75.4	75.4	75.5	75.5
≥ 6000	76.3	77.3	77.4	77.5	77.5	77.5	77.6	77.7	77.7	77.7	77.8	77.8	77.9	77.9	78.0	78.0
≥ 5000	77.7	78.6	78.8	78.9	78.9	78.9	79.0	79.1	79.1	79.1	79.2	79.2	79.3	79.3	79.4	79.4
≥ 4500	78.6	79.7	79.9	79.9	80.0	80.0	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.4	80.5	80.5
≥ 4000	80.3	81.4	81.6	81.7	81.7	81.7	81.8	81.8	81.9	81.9	82.0	82.0	82.1	82.1	82.2	82.2
≥ 3500	81.3	82.4	82.6	82.7	82.7	82.7	82.8	82.8	82.8	82.9	83.0	83.0	83.1	83.1	83.2	83.2
≥ 3000	83.2	84.4	84.6	84.7	84.7	84.7	84.8	84.8	84.9	84.9	85.0	85.0	85.1	85.1	85.2	85.2
≥ 2500	85.1	86.4	86.6	86.7	86.8	86.8	86.9	87.0	87.0	87.0	87.1	87.1	87.2	87.2	87.3	87.3
≥ 2000	87.1	88.6	88.8	89.0	89.0	89.0	89.2	89.2	89.3	89.3	89.4	89.4	89.5	89.5	89.6	89.6
≥ 1800	88.0	89.6	89.9	90.0	90.1	90.1	90.2	90.3	90.3	90.4	90.5	90.5	90.6	90.6	90.7	90.7
≥ 1500	89.2	90.8	91.1	91.3	91.4	91.4	91.5	91.6	91.6	91.7	91.8	91.8	91.9	91.9	92.0	92.0
≥ 1200	90.6	92.4	92.9	93.1	93.3	93.4	93.5	93.6	93.6	93.6	93.7	93.7	93.8	93.8	93.9	93.9
≥ 1000	91.6	93.6	94.2	94.5	94.7	94.7	94.9	95.0	95.0	95.1	95.2	95.2	95.3	95.3	95.4	95.4
≥ 900	92.1	94.2	94.8	95.1	95.3	95.4	95.6	95.7	95.7	95.7	95.8	95.8	95.9	96.0	96.0	96.1
≥ 800	92.5	94.6	95.3	95.6	95.8	95.9	96.1	96.2	96.2	96.3	96.4	96.4	96.5	96.5	96.6	96.6
≥ 700	92.8	95.2	95.9	96.4	96.6	96.7	96.9	97.0	97.0	97.1	97.2	97.2	97.3	97.3	97.4	97.4
≥ 600	93.1	95.7	96.4	97.0	97.2	97.3	97.6	97.6	97.7	97.7	97.8	97.8	97.9	97.9	98.0	98.0
≥ 500	93.2	96.0	96.8	97.4	97.7	97.8	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.5	98.6	98.6
≥ 400	93.2	96.0	96.9	97.5	97.9	98.0	98.5	98.6	98.6	98.7	98.8	98.8	98.9	98.9	99.0	99.0
≥ 300	93.2	96.1	97.0	97.7	98.1	98.3	98.7	98.8	98.9	99.0	99.1	99.1	99.2	99.3	99.4	99.5
≥ 200	93.2	96.1	97.0	97.7	98.2	98.4	98.9	99.0	99.1	99.2	99.3	99.3	99.4	99.5	99.6	99.7
≥ 100	93.2	96.1	97.0	97.7	98.2	98.4	98.9	99.0	99.1	99.2	99.3	99.3	99.4	99.5	99.7	99.8
≥ 0	93.2	96.1	97.0	97.7	98.2	98.4	98.9	99.0	99.1	99.2	99.3	99.3	99.4	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 5760

2
GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HLCTOP APT FARGO ND

73-80

007

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0400
HOURS (L. A.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING ≥ 20000	57.4	57.5	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.2
≥ 18000	61.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.6
≥ 16000	61.8	62.0	62.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8
≥ 14000	61.8	62.0	62.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8
≥ 12000	64.2	64.4	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2
≥ 10000	68.1	68.3	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1
≥ 9000	69.5	69.8	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.6
≥ 8000	71.1	71.2	71.4	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0
≥ 7000	73.4	73.7	73.8	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7
≥ 6000	75.4	75.7	75.8	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7
≥ 5000	78.4	78.8	78.9	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8
≥ 4500	80.1	80.5	80.6	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6
≥ 4000	82.7	82.4	82.5	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.5
≥ 3500	82.7	83.1	83.2	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1
≥ 3000	83.9	84.5	84.7	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6
≥ 2500	87.1	87.8	87.9	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8
≥ 2000	89.1	89.9	90.1	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.3
≥ 1800	89.9	91.0	91.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.5
≥ 1500	90.7	91.8	91.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.3
≥ 1200	92.3	94.1	94.2	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0
≥ 1000	93.4	95.4	95.6	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3
≥ 900	94.0	96.0	96.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 800	94.0	96.0	96.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 700	94.4	96.4	96.5	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3
≥ 600	94.4	96.5	96.6	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.5
≥ 500	94.8	96.9	97.2	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.1	99.2
≥ 400	94.9	97.2	97.4	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.5
≥ 300	95.0	97.3	97.6	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6
≥ 200	95.0	97.3	97.7	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
≥ 100	95.0	97.3	97.7	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0
≥ 0	95.0	97.3	97.7	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 744

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

2

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MONTH

0300-0500
HOURS (L.S.T.)

1

744

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 WFFETAC
 AFM WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	-1.5	53.8	53.9	54.2	54.4	54.4	54.7	54.7	54.7	54.7	55.0	55.1	55.1	55.1	55.1	55.4
≥20000	53.4	56.5	56.9	57.3	57.5	57.5	57.8	57.8	57.8	57.8	58.1	58.2	58.2	58.2	58.2	58.5
≥18000	54.1	56.7	57.1	57.5	57.8	57.8	58.1	58.1	58.1	58.1	58.3	58.5	58.5	58.5	58.5	58.7
≥16000	54.1	56.7	57.1	57.5	57.8	57.8	58.1	58.1	58.1	58.1	58.3	58.5	58.5	58.5	58.5	58.7
≥14000	55.5	58.2	58.4	59.0	59.3	59.3	59.5	59.5	59.5	59.5	59.8	59.9	59.9	59.9	59.9	60.2
≥12000	56.4	59.5	59.9	60.3	60.6	60.6	60.9	60.9	60.9	60.9	61.2	61.3	61.3	61.3	61.3	61.6
≥10000	61.7	64.4	64.8	65.2	65.5	65.5	65.7	65.7	65.7	65.7	66.0	66.1	66.1	66.1	66.1	66.4
≥9000	63.0	65.9	66.3	66.7	66.9	66.9	67.2	67.2	67.2	67.2	67.5	67.6	67.6	67.6	67.6	67.9
≥8000	63.3	66.1	66.5	66.9	67.2	67.2	67.5	67.5	67.5	67.5	67.7	67.9	67.9	67.9	67.9	68.1
≥7000	65.1	68.8	69.2	69.6	69.9	69.9	70.2	70.2	70.2	70.2	70.4	70.6	70.6	70.6	70.6	70.8
≥6000	68.1	71.0	71.4	71.8	72.0	72.0	72.3	72.3	72.3	72.3	72.6	72.7	72.7	72.7	72.7	73.0
≥5000	69.9	73.0	73.5	73.9	74.2	74.2	74.5	74.5	74.5	74.5	74.7	74.9	74.9	74.9	74.9	75.1
≥4500	71.2	74.3	74.9	75.3	75.5	75.5	75.8	75.8	75.8	75.8	76.1	76.2	76.2	76.2	76.2	76.5
≥4000	73.4	76.7	77.3	77.7	78.0	78.0	78.2	78.2	78.2	78.2	78.5	78.6	78.6	78.6	78.6	78.9
≥3500	74.6	78.0	78.5	78.9	79.2	79.2	79.4	79.4	79.4	79.4	79.7	79.8	79.8	79.8	79.8	80.1
≥3000	76.7	80.2	80.8	81.2	81.5	81.5	81.7	81.7	81.7	81.7	82.0	82.1	82.1	82.1	82.1	82.4
≥2500	79.4	83.1	83.6	84.0	84.3	84.3	84.5	84.5	84.5	84.5	84.8	84.9	84.9	84.9	84.9	85.2
≥2000	82.7	86.6	87.1	87.5	87.8	87.8	88.0	88.0	88.0	88.0	88.3	88.4	88.4	88.4	88.4	88.7
≥1800	83.6	87.5	88.0	88.6	88.8	88.8	89.1	89.1	89.1	89.1	89.4	89.5	89.5	89.5	89.5	89.8
≥1500	84.5	88.6	89.1	89.7	89.9	89.9	90.2	90.2	90.2	90.2	90.5	90.6	90.6	90.6	90.6	90.9
≥1200	86.0	90.3	91.0	91.5	91.8	91.8	92.1	92.1	92.1	92.1	92.3	92.5	92.5	92.5	92.5	92.7
≥1000	86.8	91.3	92.1	92.6	93.0	93.1	93.4	93.5	93.5	93.5	93.8	94.0	94.0	94.0	94.0	94.2
≥900	86.8	91.3	92.2	92.9	93.3	93.4	93.7	93.8	93.8	93.8	94.1	94.2	94.2	94.2	94.2	94.5
≥800	87.7	91.4	92.3	93.0	93.4	93.5	93.8	94.1	94.1	94.1	94.4	94.5	94.5	94.5	94.5	94.8
≥700	87.6	92.1	93.0	93.7	94.1	94.2	94.5	94.8	94.8	94.8	95.0	95.2	95.2	95.2	95.2	95.4
≥600	88.0	92.7	94.0	94.8	95.2	95.3	95.6	95.8	95.8	95.8	96.1	96.2	96.2	96.2	96.2	96.5
≥500	88.0	92.7	94.2	95.6	96.0	96.2	96.5	96.8	96.8	96.8	97.0	97.2	97.2	97.2	97.2	97.4
≥400	88.0	92.9	94.4	95.8	96.2	96.5	96.8	97.0	97.0	97.0	97.2	97.4	97.6	97.6	97.6	97.8
≥300	88.0	92.9	94.5	96.2	96.6	96.9	97.3	97.6	97.6	97.6	97.7	98.0	98.1	98.1	98.1	98.4
≥200	88.0	92.9	94.5	96.2	96.6	97.2	97.6	97.8	97.8	97.8	98.0	98.3	98.4	98.4	98.4	98.7
≥100	88.1	92.9	94.5	96.2	96.6	97.3	97.7	98.0	98.0	98.0	98.1	98.4	98.5	98.5	98.5	98.7
≥0	88.1	92.9	94.5	96.2	96.6	97.3	97.7	98.0	98.0	98.0	98.1	98.4	98.5	98.5	98.7	99.1

TOTAL NUMBER OF OBSERVATIONS 744

CLIMATE CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	49.7	52.2	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 20000	56.3	58.7	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 18000	56.5	59.4	59.9	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 16000	56.5	59.4	59.9	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 14000	57.3	60.3	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 12000	58.9	62.0	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 10000	62.5	65.9	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 9500	63.2	66.7	67.3	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 8000	63.4	67.1	67.7	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 7000	65.2	68.7	69.5	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 6000	66.5	70.0	70.8	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 5000	68.0	71.5	72.3	72.4	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 4500	69.1	72.6	73.4	73.5	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 4000	71.5	75.1	75.9	76.1	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 3500	72.2	75.8	76.6	76.7	76.9	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 3000	73.5	77.4	78.2	78.4	78.5	78.5	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 2500	77.2	81.3	82.1	82.3	82.4	82.4	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2000	80.9	85.1	85.9	86.2	86.3	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 1800	82.1	86.4	87.2	87.5	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1500	82.9	87.4	88.2	88.4	88.7	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 1200	83.9	89.1	89.9	90.2	90.5	90.6	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1000	84.7	90.1	90.9	91.1	91.4	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 900	85.1	90.9	91.7	92.2	92.5	92.6	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 800	85.9	91.8	92.6	93.1	93.4	93.5	94.1	94.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 700	86.3	92.2	93.1	93.7	94.1	94.2	95.0	95.6	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 600	86.4	92.9	94.7	94.6	95.0	95.4	96.5	97.0	97.0	97.4	97.4	97.6	97.6	97.6	97.6	97.6
≥ 500	86.4	93.0	94.2	94.9	95.3	95.7	96.9	97.4	97.4	97.8	97.8	98.0	98.0	98.0	98.0	98.0
≥ 400	86.4	93.1	94.4	95.0	95.7	96.1	97.3	98.0	98.0	98.5	98.5	98.7	98.7	98.7	98.7	98.7
≥ 300	86.4	93.3	94.5	95.2	95.8	96.2	97.6	98.3	98.3	98.9	98.9	99.1	99.1	99.1	99.1	99.1
≥ 200	86.4	93.3	94.5	95.2	95.8	96.4	97.7	98.4	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2
≥ 100	86.4	93.3	94.5	95.2	95.8	96.4	97.7	98.4	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2
≥ 0	86.4	93.3	94.5	95.2	95.8	96.4	97.7	98.4	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14

HECTOR APT FARGO ND

73-80

CCT

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	49.3	50.5	50.5	50.5	50.8	50.8	50.8	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥20000	56.6	58.1	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥18000	56.6	58.3	58.3	58.3	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥16000	56.6	58.3	58.3	58.3	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥14000	57.4	59.1	59.1	59.1	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥12000	59.8	61.6	61.6	61.6	61.8	61.8	61.8	61.8	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥10000	62.4	64.2	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥9000	63.3	65.2	65.2	65.2	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥8000	64.7	66.7	66.7	66.7	66.9	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥7000	67.1	69.2	69.2	69.4	69.6	69.8	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥6000	67.9	70.0	70.0	70.3	70.6	70.7	70.8	70.8	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥5000	69.6	71.8	71.8	72.0	72.3	72.4	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥4500	70.2	72.3	72.3	72.6	72.8	73.0	73.1	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥4000	73.3	75.4	75.4	75.7	75.9	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥3500	74.2	76.3	76.3	76.6	76.9	77.0	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥3000	77.7	80.0	80.0	80.2	80.5	80.6	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥2500	80.9	83.2	83.2	83.5	83.7	83.9	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥2000	84.3	87.1	87.1	87.4	87.6	87.8	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥1800	84.8	87.8	87.9	88.2	88.4	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥1500	85.9	89.1	89.4	89.9	90.5	90.6	90.7	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥1200	86.6	90.2	90.6	91.1	91.7	91.8	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥1000	87.2	90.9	91.3	92.1	93.0	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥900	88.1	92.1	92.5	93.3	94.2	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥800	88.3	92.9	93.3	94.1	95.0	95.2	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥700	88.4	93.3	93.7	94.5	95.4	95.6	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥600	88.7	94.0	94.4	95.7	96.6	96.8	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥500	88.7	94.1	94.5	96.1	97.0	97.3	98.1	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥400	88.7	94.2	94.8	96.6	97.6	97.8	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥300	88.7	94.5	95.0	97.0	98.0	98.4	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥200	88.7	94.5	95.0	97.0	98.0	98.4	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥100	88.7	94.5	95.0	97.0	98.0	98.4	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0	88.7	94.5	95.0	97.0	98.0	98.4	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS

744

2
 GLOBAL CLIMATOLOGY BRANCH
 WAFETAC
 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1973 HECTOR APT FARGO ND

73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	49.3	49.6	49.6	49.6	49.6	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 20000	54.1	58.5	58.5	58.5	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	56.7
≥ 18000	58.3	58.7	58.7	58.7	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 16000	54.3	58.7	58.7	58.7	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 14000	59.3	59.7	59.7	59.7	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 12000	62.6	63.0	63.0	63.0	63.0	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000	64.8	65.5	65.5	65.5	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 9000	65.9	66.7	66.7	66.7	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 8000	68.5	69.5	69.5	69.5	69.5	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 7000	69.9	70.8	70.8	70.8	71.0	71.1	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 6000	71.6	72.6	72.6	72.6	72.7	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 5000	74.3	75.4	75.4	75.7	75.8	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 4500	75.7	76.1	76.1	76.3	76.5	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 4000	78.2	79.3	79.3	79.6	79.7	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3500	80.1	81.2	81.2	81.5	81.6	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3000	83.1	84.3	84.3	84.5	84.7	84.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2500	84.7	86.3	86.8	87.1	87.2	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 2000	86.2	88.4	89.0	89.4	89.5	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1800	86.8	89.1	89.7	90.1	90.2	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	87.8	90.6	91.1	91.5	91.7	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1200	87.8	90.9	91.6	92.3	92.5	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1000	89.7	92.2	93.1	93.8	94.1	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 900	89.2	92.5	93.4	94.1	94.5	94.8	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 800	89.2	92.6	93.5	94.2	94.6	94.9	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 700	89.7	93.3	94.2	95.2	95.6	95.8	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 600	89.8	93.5	94.6	95.8	96.2	96.5	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 500	89.8	93.5	94.9	96.2	96.6	97.0	98.0	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3
≥ 400	89.8	93.8	95.2	96.5	96.9	97.7	98.7	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	89.8	94.0	95.3	96.8	97.2	98.1	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	89.8	94.0	95.3	96.8	97.2	98.1	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	89.8	94.0	95.3	96.8	97.2	98.1	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	89.8	94.0	95.3	96.8	97.2	98.1	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 OFFICE
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

DOT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 20000	60.0	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 18000	60.7	60.8	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 16000	60.8	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 14000	61.9	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 12000	65.9	66.2	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000	69.9	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 9000	70.5	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 8000	71.3	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 7000	74.2	74.8	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 6000	75.6	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 5000	78.1	79.1	79.1	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 4500	79.3	80.5	80.5	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 4000	82.5	83.8	83.8	84.5	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	83.7	85.1	85.1	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 3000	85.5	86.8	86.8	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 2500	86.5	88.6	88.6	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2000	88.3	90.7	91.1	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1800	88.4	90.8	91.3	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1500	89.9	92.3	92.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	90.2	92.6	93.1	94.3	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1000	91.1	93.5	94.1	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	91.5	94.3	94.9	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 800	91.8	94.8	95.4	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	91.8	94.8	95.4	97.0	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	91.8	95.0	96.0	98.0	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	91.8	95.0	96.1	98.1	98.3	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	91.8	95.0	96.1	98.3	98.4	98.7	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	91.8	95.2	96.2	98.5	98.7	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	91.8	95.4	96.5	98.8	98.9	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.8	95.4	96.5	98.8	98.9	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.8	95.4	96.5	98.8	98.9	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 743

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1114 HECTOR APT FARGO ND

73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	54.3	54.6	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	55.7	55.0
≥ 20000	59.1	59.7	59.7	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.1	60.1
≥ 18000	60.1	60.6	60.6	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0
≥ 16000	60.2	60.8	60.8	60.9	60.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.2	61.2
≥ 14000	62.2	62.8	62.8	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.2	63.2
≥ 12000	64.7	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.9	65.9
≥ 10000	68.3	69.1	69.1	69.2	69.2	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5
≥ 9000	70.3	71.1	71.1	71.2	71.2	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5
≥ 8000	71.8	72.8	72.8	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.3	73.3
≥ 7000	76.1	77.2	77.2	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.6	77.6
≥ 6000	78.4	79.6	79.6	79.7	79.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1
≥ 5000	81.2	82.5	82.5	82.7	82.7	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2
≥ 4500	82.7	83.5	83.5	83.6	83.6	83.7	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1
≥ 4000	84.4	85.9	85.9	86.2	86.2	86.3	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7
≥ 3500	84.9	86.4	86.6	86.8	86.8	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.4	87.4
≥ 3000	86.6	88.2	88.6	88.6	88.8	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.4
≥ 2500	87.9	89.7	90.2	90.5	90.5	90.6	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0
≥ 2000	89.8	91.5	92.1	92.3	92.3	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.9	92.9
≥ 1800	90.3	92.1	92.7	93.0	93.0	93.1	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥ 1500	91.0	92.9	93.7	94.1	94.1	94.2	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6
≥ 1200	91.8	93.8	94.6	95.0	95.0	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.6	95.6
≥ 1000	92.7	94.9	95.7	96.1	96.1	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.6	96.6
≥ 900	93.0	95.3	96.1	96.5	96.5	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0
≥ 800	93.3	95.6	96.4	96.8	96.8	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3
≥ 700	93.5	96.4	97.2	97.6	97.6	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1
≥ 600	93.5	97.2	98.0	98.4	98.4	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
≥ 500	93.7	97.3	98.3	98.7	98.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 400	93.7	97.3	98.3	98.7	98.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 300	93.8	97.4	98.4	98.8	98.8	98.9	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.5	99.5
≥ 200	94.1	97.7	98.7	99.1	99.1	99.2	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7
≥ 100	94.1	97.7	98.7	99.1	99.1	99.2	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.9	100.0	100.0
≥ 0	94.1	97.7	98.7	99.1	99.1	99.2	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14

HECTOR APT FARGO ND

73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	52.6	53.6	53.8	53.9	54.0	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2
≥20000	59.1	59.1	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.9
≥18000	58.4	59.6	59.8	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3
≥16000	58.5	59.6	59.9	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.4
≥14000	59.6	60.7	61.0	61.2	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5	61.5
≥12000	61.8	63.0	63.3	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.8
≥10000	65.3	66.6	66.9	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.4
≥9000	66.6	67.9	68.2	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.8
≥8000	67.7	69.2	69.5	69.7	69.8	69.8	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.1
≥7000	70.3	71.8	72.1	72.3	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7
≥6000	71.9	73.5	73.9	74.1	74.2	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5
≥5000	74.2	75.9	76.2	76.6	76.7	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0
≥4500	75.3	77.0	77.3	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.2
≥4000	78.1	79.8	80.1	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	81.0
≥3500	79.7	80.8	81.2	81.5	81.6	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0
≥3000	81.1	83.1	83.5	83.8	83.9	84.0	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.4
≥2500	83.5	85.7	86.2	86.6	86.7	86.7	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.1
≥2000	86.2	88.7	89.2	89.6	89.7	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.2
≥1800	86.9	89.4	90.0	90.5	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	91.0
≥1500	87.8	90.5	91.1	91.7	91.8	91.9	92.1	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.3
≥1200	88.7	91.7	92.5	93.1	93.2	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7
≥1000	89.5	92.7	93.4	94.1	94.4	94.5	94.7	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	95.0
≥900	89.9	93.2	94.0	94.8	95.0	95.2	95.4	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.7
≥800	90.2	93.6	94.4	95.2	95.4	95.5	95.8	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.2
≥700	90.5	94.1	94.9	95.8	96.1	96.2	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.9	96.9
≥600	90.7	94.7	95.6	96.6	96.9	97.1	97.5	97.6	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.9
≥500	90.8	94.8	95.8	97.0	97.3	97.5	98.0	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.5
≥400	90.8	94.9	96.0	97.2	97.6	97.9	98.4	98.7	98.7	98.7	98.8	98.8	98.9	98.9	98.9	99.0
≥300	90.8	95.0	96.1	97.4	97.8	98.1	98.7	98.9	98.9	98.9	99.1	99.2	99.2	99.2	99.2	99.4
≥200	90.9	95.1	96.2	97.6	97.9	98.3	98.9	99.2	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.7
≥100	90.9	95.1	96.2	97.6	97.9	98.3	98.9	99.2	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.7
≥0	90.9	95.1	96.2	97.6	97.9	98.3	98.9	99.2	99.2	99.2	99.4	99.4	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 9951

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAF CLIMATOLOGY BRANCH
 AFETAC
 AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1000-0200
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING ≥ 20000	46.7	47.1	47.5	47.5	47.9	47.9	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.5	48.5	48.6
≥ 18000	50.4	50.8	51.3	51.3	51.7	51.7	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.4
≥ 16000	50.6	51.0	51.4	51.4	51.8	51.8	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.4	52.4	52.5
≥ 14000	51.3	51.7	52.1	52.1	52.5	52.5	52.6	52.9	52.9	52.9	52.9	52.9	52.9	53.1	53.1	53.2
≥ 12000	52.6	53.1	53.5	53.5	53.9	53.9	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.4	54.4	54.6
≥ 10000	57.1	57.5	57.9	57.9	58.5	58.5	58.6	58.9	58.9	58.9	58.9	58.9	58.9	59.0	59.0	59.2
≥ 9000	57.5	57.9	58.3	58.3	58.9	58.9	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.6
≥ 8000	58.3	58.8	59.2	59.2	59.7	59.7	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.3	60.3	60.4
≥ 7000	59.7	60.3	60.7	60.7	61.3	61.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.9
≥ 6000	61.4	61.9	62.4	62.4	62.9	62.9	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.5	63.5	63.6
≥ 5000	62.1	62.8	63.3	63.3	63.5	64.0	64.0	64.3	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.9
≥ 4500	62.6	63.3	63.9	64.0	64.6	64.6	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.3	65.3	65.4
≥ 4000	65.1	66.0	66.5	66.7	67.2	67.2	67.5	67.8	67.8	67.8	67.8	67.8	67.8	67.9	67.9	68.1
≥ 3500	65.6	66.4	66.9	67.1	67.6	67.6	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.5
≥ 3000	68.3	69.2	69.7	69.9	70.4	70.4	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.3
≥ 2500	72.4	73.3	73.9	74.2	75.3	75.4	75.7	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.3
≥ 2000	76.5	77.6	78.2	78.5	79.6	79.9	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.9
≥ 1800	77.8	79.2	79.7	80.3	81.5	81.8	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.6	82.8
≥ 1500	79.9	81.4	81.9	82.8	84.0	84.4	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.6
≥ 1200	81.9	83.6	84.2	85.3	86.7	87.1	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
≥ 1000	82.9	85.1	85.7	86.9	88.3	88.8	89.3	89.7	89.9	89.9	89.9	90.0	90.0	90.1	90.1	90.3
≥ 900	83.2	85.6	86.1	87.5	88.9	89.3	89.9	90.3	90.4	90.4	90.4	90.6	90.6	90.7	90.7	90.8
≥ 800	83.5	86.0	86.5	87.9	89.3	89.7	90.3	90.7	90.8	90.8	90.8	91.0	91.0	91.1	91.1	91.3
≥ 700	84.3	86.8	87.4	88.8	90.1	90.6	91.1	91.5	91.7	91.7	91.7	91.8	91.8	91.9	91.9	92.1
≥ 600	84.6	87.6	88.2	89.9	91.3	91.7	92.6	93.2	93.5	93.5	93.5	93.6	93.6	93.8	93.8	93.9
≥ 500	84.7	88.2	88.9	90.8	92.5	93.1	94.2	94.7	95.1	95.1	95.1	95.3	95.3	95.4	95.4	95.6
≥ 400	84.7	88.2	89.3	91.5	93.2	93.8	95.0	95.8	96.3	96.3	96.3	96.4	96.4	96.5	96.5	96.7
≥ 300	84.7	88.5	89.6	92.1	94.2	95.0	96.3	97.1	97.5	97.8	98.1	98.1	98.3	98.3	98.3	98.5
≥ 200	84.7	88.5	89.9	92.5	94.6	95.4	96.7	97.5	97.9	98.3	98.6	98.6	98.6	99.0	99.0	99.3
≥ 100	84.7	88.5	89.9	92.5	94.6	95.4	96.7	97.5	97.9	98.3	98.8	98.8	98.8	99.3	99.3	99.6
≥ 0	84.7	88.5	89.9	92.5	94.6	95.4	96.7	97.5	97.9	98.3	98.8	98.8	98.8	99.3	99.3	99.4

TOTAL NUMBER OF OBSERVATIONS 720

2
1
FEDERAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14-14 HECTOP APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1370-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/16	≥0
NO CEILING	46.4	47.2	47.5	47.6	48.1	48.1	48.1	48.1	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 20000	49.2	50.0	50.3	50.4	50.8	50.8	50.8	50.8	50.8	51.3	51.3	51.3	51.3	51.3	51.3	51.7
≥ 18000	49.3	50.1	50.4	50.6	51.0	51.0	51.0	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.8
≥ 16000	49.3	50.1	50.4	50.6	51.0	51.0	51.0	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.8
≥ 14000	49.9	50.8	51.1	51.3	51.7	51.7	51.7	51.7	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.5
≥ 12000	51.5	52.5	52.8	53.1	53.5	53.5	53.5	53.5	53.5	53.9	53.9	53.9	53.9	53.9	53.9	54.3
≥ 10000	55.7	56.7	56.9	57.2	57.6	57.6	57.6	57.6	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.5
≥ 9000	56.5	57.5	57.8	58.1	58.5	58.5	58.5	58.5	58.5	58.9	58.9	58.9	58.9	58.9	58.9	59.3
≥ 8000	57.2	58.2	58.5	58.8	59.2	59.2	59.2	59.2	59.2	59.6	59.6	59.6	59.6	59.6	59.6	60.0
≥ 7000	58.2	59.6	59.9	60.1	60.6	60.6	60.6	60.6	60.6	61.0	61.0	61.0	61.0	61.0	61.0	61.4
≥ 6000	59.6	61.0	61.4	61.7	62.1	62.1	62.1	62.1	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.9
≥ 5000	60.8	62.2	62.6	62.9	63.3	63.3	63.3	63.3	63.3	63.8	63.8	63.8	63.8	63.8	63.8	64.2
≥ 4500	61.4	62.9	63.5	63.9	64.3	64.3	64.3	64.3	64.3	64.7	64.7	64.7	64.7	64.7	64.7	65.1
≥ 4000	63.5	65.0	65.6	66.0	66.4	66.4	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	67.2
≥ 3500	64.6	66.3	66.8	67.4	67.8	67.8	67.8	67.8	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.6
≥ 3000	65.7	67.6	68.5	69.0	69.4	69.4	69.4	69.4	69.4	69.9	69.9	69.9	69.9	69.9	69.9	70.3
≥ 2500	69.4	71.7	72.9	73.8	74.4	74.4	74.4	74.4	74.4	75.0	75.0	75.0	75.0	75.0	75.0	75.4
≥ 2000	71.8	75.8	77.1	78.1	78.9	78.9	79.2	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	80.0
≥ 1800	73.9	77.9	79.3	80.3	81.5	81.5	81.8	81.8	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.6
≥ 1500	76.3	81.0	82.4	83.5	85.1	85.1	85.4	85.6	85.6	86.1	86.1	86.1	86.1	86.1	86.1	86.5
≥ 1200	77.5	82.6	84.2	85.4	87.4	87.4	87.6	88.1	88.1	88.8	88.8	88.8	88.8	88.8	88.8	89.2
≥ 1000	77.8	83.2	84.7	86.0	87.9	87.9	88.2	88.6	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.7
≥ 900	78.3	84.0	85.6	86.8	88.8	88.9	89.2	89.6	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.7
≥ 800	79.1	85.3	86.8	88.2	90.1	90.4	90.7	91.1	91.1	91.8	91.8	91.8	91.8	91.8	91.8	92.2
≥ 700	79.4	86.4	87.9	89.3	91.4	91.7	91.9	92.5	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.6
≥ 600	79.9	87.2	89.0	90.4	92.5	92.8	93.1	93.6	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.7
≥ 500	80.3	87.8	89.6	91.1	93.2	93.5	93.8	94.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.4
≥ 400	80.3	87.8	89.6	91.3	93.5	93.8	94.0	94.7	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.8
≥ 300	80.3	87.8	89.6	91.7	94.0	94.7	95.0	96.0	96.0	96.8	96.8	96.8	96.8	96.8	96.8	97.2
≥ 200	80.4	88.2	90.0	92.1	94.6	95.3	95.7	96.7	96.7	97.6	97.6	97.6	97.6	97.6	97.6	98.0
≥ 100	80.4	88.2	90.0	92.1	94.6	95.3	95.7	96.7	96.7	97.6	97.6	97.6	97.6	97.6	97.6	98.0
≥ 0	80.4	88.2	90.0	92.1	94.6	95.3	95.7	96.7	96.7	97.6	97.6	97.6	97.6	97.6	97.6	98.0

TOTAL NUMBER OF OBSERVATIONS 720

AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

1 14
STATION

SECTOR APT FARGO ND
STATION NAME

73-80
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	43.3	44.7	44.9	45.0	45.3	45.6	45.7	45.7	45.7	45.8	45.8	45.8	45.8	46.1	46.1	46.3
≥ 2000	47.2	48.8	48.9	49.0	49.3	49.6	49.7	49.7	49.7	49.9	49.9	49.9	49.9	50.1	50.1	50.3
≥ 1800	48.1	49.6	49.7	49.9	50.1	50.4	50.6	50.6	50.6	50.7	50.7	50.7	50.7	51.0	51.0	51.1
≥ 1600	48.1	49.6	49.7	49.9	50.1	50.4	50.6	50.6	50.6	50.7	50.7	50.7	50.7	51.0	51.0	51.1
≥ 1400	48.9	50.4	50.6	50.7	51.0	51.3	51.4	51.4	51.4	51.5	51.5	51.5	51.5	51.8	51.8	51.9
≥ 1200	50.7	52.4	52.5	52.6	52.9	53.2	53.3	53.3	53.3	53.6	53.6	53.6	53.6	53.9	53.9	54.2
≥ 1000	54.4	56.1	56.4	56.5	56.9	57.4	57.5	57.5	57.5	57.8	57.8	57.8	57.8	58.1	58.1	58.2
≥ 900	56.0	57.6	57.9	58.1	58.5	58.9	59.0	59.0	59.0	59.3	59.3	59.3	59.3	59.6	59.6	59.7
≥ 800	56.9	58.9	59.0	59.2	59.6	60.0	60.1	60.1	60.1	60.4	60.4	60.4	60.4	60.7	60.7	60.8
≥ 700	58.8	60.8	61.1	61.3	61.7	62.1	62.2	62.2	62.2	62.5	62.5	62.5	62.5	62.8	62.8	63.1
≥ 600	59.3	61.4	61.7	61.8	62.2	62.6	62.8	62.8	62.8	63.1	63.1	63.1	63.1	63.3	63.3	63.5
≥ 500	59.9	61.9	62.2	62.4	62.8	63.2	63.5	63.5	63.5	63.8	63.8	63.8	63.8	64.0	64.0	64.2
≥ 4500	60.7	62.8	63.1	63.2	63.6	64.0	64.3	64.3	64.3	64.6	64.6	64.6	64.6	64.9	64.9	65.0
≥ 4000	62.8	65.1	65.4	65.6	66.0	66.4	66.7	66.7	66.7	67.1	67.1	67.1	67.1	67.4	67.4	67.5
≥ 3500	63.9	66.4	66.7	66.8	67.2	67.6	67.9	67.9	67.9	68.3	68.3	68.3	68.3	68.6	68.6	68.8
≥ 3000	65.0	67.6	67.9	68.2	68.6	69.0	69.3	69.3	69.3	69.7	69.7	69.7	69.7	70.0	70.0	70.1
≥ 2500	68.2	71.5	71.9	72.2	72.6	73.1	73.5	73.5	73.5	73.9	73.9	73.9	73.9	74.2	74.2	74.3
≥ 2000	71.3	75.4	76.0	76.4	76.9	77.4	77.9	77.9	77.9	78.3	78.3	78.3	78.3	78.6	78.6	78.9
≥ 1800	72.4	76.5	77.1	77.5	78.1	78.5	79.0	79.0	79.0	79.4	79.4	79.4	79.4	79.7	79.7	79.9
≥ 1600	75.1	79.6	80.1	80.6	81.1	81.5	82.2	82.2	82.2	82.4	82.8	82.8	82.8	83.1	83.1	83.2
≥ 1400	76.7	81.7	82.2	82.8	83.5	83.9	84.7	84.9	85.0	85.4	85.4	85.4	85.4	85.7	85.7	85.8
≥ 1200	78.2	83.3	84.1	84.6	85.3	85.8	86.7	86.8	86.9	87.4	87.4	87.4	87.4	87.6	87.6	87.8
≥ 1000	78.9	84.2	84.9	85.4	86.1	86.7	87.5	87.8	87.9	88.3	88.3	88.3	88.3	88.6	88.6	88.9
≥ 900	79.4	85.0	85.7	86.4	87.1	87.8	88.9	89.2	89.3	89.7	89.7	89.7	89.7	90.0	90.0	90.1
≥ 800	79.6	85.3	86.0	86.8	87.8	88.5	89.6	89.9	90.0	90.4	90.4	90.4	90.4	90.7	90.7	90.8
≥ 700	80.8	86.8	87.5	88.5	89.6	90.3	91.4	91.7	91.8	92.4	92.4	92.4	92.4	92.6	92.6	92.9
≥ 600	81.3	87.4	88.1	89.0	90.1	91.0	92.2	92.5	92.6	93.3	93.5	93.5	93.5	93.8	93.8	93.9
≥ 500	81.3	88.2	88.9	90.3	91.7	92.8	94.3	94.7	94.9	95.6	95.7	95.7	95.7	96.0	96.0	96.1
≥ 400	81.3	88.2	88.9	90.3	91.7	92.8	94.3	94.7	94.9	95.6	95.7	95.7	95.7	96.0	96.0	96.1
≥ 300	81.3	88.2	88.9	90.3	91.7	92.8	94.3	94.7	94.9	95.6	95.7	95.7	95.7	96.0	96.0	96.1
≥ 200	81.4	88.3	89.0	90.8	92.6	93.9	95.7	96.4	96.5	97.4	97.5	97.5	97.5	98.2	98.2	98.3
≥ 100	81.4	88.3	89.0	90.8	92.6	93.9	95.8	96.5	96.7	97.6	97.8	97.8	97.8	98.8	99.0	99.2
≥ 0	81.4	88.3	89.0	90.8	92.6	93.9	95.8	96.5	96.7	97.8	97.9	97.9	97.9	98.9	99.2	99.4

TOTAL NUMBER OF OBSERVATIONS 720

FEDERAL CLIMATOLOGY BRANCH
 WAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 STATION HECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1980-1100
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	42.4	43.6	43.9	47.9	44.0	44.2	44.3	44.3	44.3	44.4	44.7	44.7	44.7	44.7	44.7	44.7
≥ 27000	46.3	49.7	50.0	50.0	50.1	50.3	50.6	50.6	50.6	50.7	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	49.1	50.4	50.7	50.7	50.8	51.0	51.3	51.3	51.3	51.4	51.7	51.7	51.7	51.7	51.7	51.7
≥ 15000	49.1	50.4	50.7	50.7	50.8	51.0	51.3	51.3	51.3	51.4	51.7	51.7	51.7	51.7	51.7	51.7
≥ 14000	50.1	51.5	51.8	51.8	51.9	52.1	52.4	52.4	52.4	52.5	52.8	52.8	52.8	52.8	52.8	52.8
≥ 12000	51.3	52.6	52.9	52.9	53.1	53.2	53.5	53.5	53.5	53.6	53.9	53.9	53.9	53.9	53.9	53.9
≥ 10000	54.0	55.4	55.9	56.0	56.1	56.3	56.5	56.5	56.5	56.7	56.9	56.9	56.9	56.9	56.9	56.9
≥ 9000	54.7	56.1	56.5	56.7	56.8	56.9	57.2	57.2	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6
≥ 8000	55.1	57.5	57.9	58.2	58.3	58.5	58.8	58.8	58.8	59.0	59.3	59.3	59.3	59.3	59.3	59.3
≥ 7000	56.3	58.5	58.9	59.2	59.3	59.4	59.7	59.7	59.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3
≥ 6000	57.2	58.8	59.2	59.4	59.6	59.7	60.0	60.0	60.0	60.3	60.6	60.6	60.6	60.6	60.6	60.6
≥ 5000	58.3	59.9	60.3	60.6	60.7	60.8	61.1	61.1	61.1	61.4	61.7	61.7	61.7	61.7	61.7	61.7
≥ 4500	59.4	61.3	61.7	61.9	62.1	62.2	62.5	62.5	62.5	62.8	63.1	63.1	63.1	63.1	63.1	63.1
≥ 4000	61.8	63.9	64.3	64.6	64.7	64.9	65.1	65.1	65.1	65.4	65.7	65.7	65.7	65.7	65.7	65.7
≥ 3500	62.2	64.3	64.7	65.0	65.1	65.3	65.6	65.6	65.6	65.8	66.1	66.1	66.1	66.1	66.1	66.1
≥ 3000	64.2	66.3	66.7	67.1	67.2	67.4	67.6	67.6	67.6	67.9	68.2	68.2	68.2	68.2	68.2	68.2
≥ 2500	66.4	68.6	69.0	69.4	69.6	69.9	70.1	70.3	70.3	70.7	71.0	71.0	71.0	71.0	71.0	71.0
≥ 2000	70.7	73.2	73.9	74.6	74.9	75.3	75.6	75.8	75.8	76.3	76.5	76.5	76.5	76.5	76.5	76.5
≥ 1800	72.4	74.9	75.7	76.4	76.7	77.1	77.4	77.6	77.6	78.1	78.3	78.3	78.3	78.3	78.3	78.3
≥ 1500	74.4	77.1	77.9	78.8	79.2	79.7	80.0	80.4	80.4	80.6	81.1	81.1	81.1	81.1	81.1	81.1
≥ 1200	78.1	81.9	82.9	83.8	84.2	85.0	85.3	85.8	85.8	86.3	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000	79.3	83.8	85.3	86.1	86.7	87.5	87.9	88.5	88.5	88.9	89.2	89.2	89.2	89.2	89.2	89.2
≥ 900	79.7	84.3	85.6	86.7	87.4	88.2	88.8	89.3	89.3	89.9	90.1	90.1	90.1	90.1	90.1	90.1
≥ 800	79.9	84.6	85.8	87.1	87.8	88.6	89.2	89.7	89.7	90.4	90.7	90.7	90.7	90.7	90.7	90.7
≥ 700	80.1	85.3	86.8	88.3	89.0	89.9	90.6	91.1	91.3	92.1	92.4	92.4	92.4	92.4	92.4	92.4
≥ 600	80.6	86.4	88.1	89.9	90.6	91.5	92.2	92.8	93.1	93.9	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	80.8	86.8	88.5	90.3	91.0	92.5	93.5	94.0	94.3	95.1	95.6	95.6	95.6	95.6	95.6	95.6
≥ 400	80.8	87.2	88.9	90.8	91.5	93.3	94.7	95.7	96.0	96.9	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	81.0	87.4	89.0	91.0	91.8	93.8	95.4	96.5	96.8	97.8	98.3	98.3	98.3	98.3	98.3	98.3
≥ 200	81.1	87.4	89.0	91.0	91.8	93.8	95.4	96.8	97.1	98.3	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100	81.1	87.4	89.0	91.0	91.8	93.8	95.4	96.9	97.2	98.5	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	81.1	87.4	89.0	91.0	91.8	93.8	95.4	96.9	97.2	98.5	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 720

CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1300-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	43.3	44.7	44.7	44.7	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 20000	45.3	50.1	50.1	50.1	50.6	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 18000	48.5	50.3	50.3	50.3	50.7	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 16000	48.8	50.6	50.6	50.6	51.0	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 14000	50.3	52.1	52.1	52.1	52.5	52.5	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 12000	52.6	54.4	54.4	54.4	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 10000	55.7	57.5	57.5	57.5	57.9	57.9	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 9000	56.4	58.2	58.2	58.2	58.6	58.6	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 8000	56.9	58.9	58.9	58.9	59.3	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 7000	57.4	59.4	59.4	59.4	59.9	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 6000	57.6	59.7	59.9	59.9	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 5000	58.2	60.4	61.6	60.6	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4500	59.2	61.4	61.5	61.5	61.9	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 4000	60.3	62.6	62.8	62.8	63.2	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 3500	61.3	63.3	63.5	63.5	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 3000	63.6	66.4	66.7	66.7	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 2500	68.2	71.3	71.5	71.7	72.1	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 2000	73.8	76.9	77.2	77.4	77.9	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 1800	74.6	77.8	78.1	78.2	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 1500	76.1	81.8	82.1	82.2	82.9	83.1	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1200	81.3	85.3	85.6	85.7	86.7	86.8	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1000	83.1	87.8	88.5	88.6	89.7	90.0	90.6	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 900	83.9	88.9	89.7	90.0	91.3	91.5	92.1	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 800	84.3	89.2	90.0	90.3	91.7	91.9	92.8	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 700	84.6	90.4	91.3	91.8	93.2	93.5	94.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 600	84.7	90.6	91.5	92.1	93.5	94.2	95.1	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 500	84.7	90.6	91.7	92.4	93.8	94.9	96.0	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	84.9	90.7	91.8	92.5	93.9	95.1	96.5	97.1	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6
≥ 300	84.9	90.8	92.1	92.9	94.3	95.7	97.1	97.6	97.6	97.9	98.2	98.2	98.2	98.2	98.3	98.5
≥ 200	84.9	90.8	92.1	92.9	94.3	95.7	97.1	97.8	97.8	98.2	98.5	98.5	98.5	98.5	98.6	98.9
≥ 100	84.9	90.8	92.1	92.9	94.3	95.7	97.1	97.9	97.9	98.3	98.6	98.6	98.6	98.9	99.2	99.9
≥ 0	84.9	90.8	92.1	92.9	94.3	95.7	97.1	97.9	97.9	98.3	98.6	98.6	98.6	98.9	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 720

2
 CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥ 1 1/2	≥1 1/4	≥1	≥ 3/4	≥ 1/2	≥ 1/3	≥ 1/4	≥ 1/5	≥ 1/10
NO CEILING	42.3	43.3	43.6	43.8	44.2	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 20000	50.3	51.4	51.7	51.8	52.2	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 18000	50.6	51.7	51.9	52.1	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 16000	50.6	51.7	51.9	52.1	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 14000	51.7	53.1	53.3	53.5	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	54.3	55.4	55.7	55.8	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 10000	56.3	57.9	58.2	58.3	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	57.2	58.3	58.6	58.8	59.2	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000	57.7	59.0	59.3	59.4	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 7000	58.9	60.0	60.3	60.4	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 6000	59.7	61.7	61.3	61.4	61.8	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 5000	60.1	61.7	61.9	62.2	62.6	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 4500	61.4	62.9	63.2	63.5	63.9	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 4000	62.9	64.6	64.9	65.3	65.8	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 3500	64.6	66.4	66.7	67.1	67.6	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 3000	67.6	69.4	69.7	70.1	70.8	71.0	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 2500	71.1	73.2	73.5	74.2	74.9	75.0	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 2000	75.3	77.9	78.2	79.2	79.9	80.0	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 1800	76.3	79.2	79.4	80.4	81.1	81.3	81.5	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 1500	78.6	81.5	82.8	83.9	84.9	85.0	85.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1200	81.1	86.3	86.7	87.8	88.8	89.0	89.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1000	82.1	87.8	88.2	89.4	90.6	90.8	91.3	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 900	82.8	89.3	89.7	91.0	92.1	92.4	92.8	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 800	83.1	89.6	90.0	91.4	92.5	92.8	93.2	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 700	83.5	90.1	90.6	91.9	93.1	93.5	93.9	94.6	94.6	94.7	94.9	94.9	94.9	95.0	95.0	95.1
≥ 600	84.7	90.8	91.3	92.9	94.0	94.4	94.9	95.6	95.6	95.7	95.8	95.8	95.8	96.0	96.0	96.1
≥ 500	84.0	91.1	91.8	93.6	94.7	95.1	95.6	96.3	96.3	96.4	96.7	96.7	96.7	96.8	96.8	96.9
≥ 400	84.0	91.4	92.2	94.2	95.3	95.7	96.1	96.8	96.8	96.9	97.4	97.4	97.4	97.6	97.6	97.8
≥ 300	84.0	91.4	92.2	94.2	95.3	95.7	96.1	96.8	96.8	97.1	97.5	97.5	97.5	98.1	98.1	98.2
≥ 200	84.0	91.4	92.2	94.2	95.3	95.7	96.1	96.8	96.8	97.4	97.8	97.8	97.8	98.5	98.5	98.6
≥ 100	84.3	91.4	92.2	94.2	95.3	95.7	96.1	96.8	96.8	97.4	97.8	97.8	97.8	98.5	98.5	99.0
≥ 0	84.7	91.4	92.2	94.2	95.3	95.7	96.1	96.8	96.8	97.4	97.8	97.8	97.8	98.5	98.5	99.0

TOTAL NUMBER OF OBSERVATIONS 72

2
 FEDERAL CLIMATOLOGY BRANCH
 AFCE/TAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 AECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	48.2	48.5	48.5	48.5	48.6	48.6	48.8	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 18000 IV 16000	51.9	52.5	52.5	52.5	52.6	52.6	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 14000 IV 12000	52.9	53.5	53.5	53.5	53.6	53.6	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 10000 IV 9000	55.1	55.7	55.7	55.7	55.8	55.8	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 8000 IV 7000	59.9	60.4	60.4	60.4	60.6	60.6	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 6000 IV 5000	60.9	61.4	61.4	61.4	61.5	61.5	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4500 IV 4000	61.7	62.4	62.4	62.4	62.5	62.5	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 3500 IV 3000	62.9	63.5	63.5	63.5	63.6	63.6	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 2500 IV 2000	63.6	64.9	64.9	64.9	65.0	65.0	65.1	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 1800 IV 1500	65.1	66.3	66.3	66.3	66.4	66.4	66.5	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 1200 IV 1000	67.1	68.3	68.3	68.3	68.5	68.5	68.6	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 900 IV 800	69.4	70.7	70.8	70.8	71.0	71.1	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 700 IV 600	70.8	72.1	72.4	72.4	72.6	72.8	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 500 IV 400	73.8	75.0	75.3	75.3	75.7	75.8	76.1	76.1	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 300 IV 200	76.4	77.9	78.2	78.2	78.6	78.8	79.0	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 100 IV 0	78.8	80.6	80.8	80.8	81.5	81.8	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6
	79.4	81.4	81.7	81.7	82.4	82.6	83.3	83.3	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5
	81.8	84.2	84.4	84.4	85.1	85.4	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
	83.5	86.9	87.6	87.8	88.6	88.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
	84.9	88.5	89.2	89.4	90.4	90.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
	85.6	89.3	90.0	90.3	91.3	91.5	92.6	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
	85.8	89.9	90.6	90.8	91.8	92.1	93.2	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
	86.0	90.3	91.0	91.3	92.2	92.5	93.6	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	86.1	91.1	92.2	92.5	93.5	93.8	94.9	95.0	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4
	86.3	91.4	92.6	93.1	94.0	94.3	95.4	95.6	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
	86.3	91.7	93.1	93.5	94.4	94.7	96.0	96.1	96.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8
	86.3	91.7	93.1	93.5	94.6	95.1	96.4	96.5	96.5	97.1	97.5	97.5	97.5	97.5	97.5	97.5
	86.3	91.7	93.1	93.5	94.6	95.1	96.4	96.5	96.7	97.4	97.9	97.9	98.2	98.2	98.2	98.2
	86.3	91.7	93.1	93.5	94.6	95.1	96.5	96.7	96.8	97.5	98.1	98.1	98.8	98.9	98.9	99.3
	86.3	91.7	93.1	93.5	94.6	95.1	96.5	96.7	96.8	97.5	98.1	98.1	98.8	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS

720

USAF ETAC

FORM
JUL 54

0-14-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND
STATION STATION NAME

73-80

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
MOUTH
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	47.4	47.8	47.8	48.0	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.8
≥ 20000	50.8	51.2	51.2	51.5	51.7	51.7	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	52.3
≥ 18000	50.8	51.2	51.2	51.5	51.7	51.7	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	52.3
≥ 16000	50.8	51.2	51.2	51.5	51.7	51.7	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	52.3
≥ 14000	52.7	53.1	53.1	53.4	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	54.2
≥ 12000	55.4	55.8	55.8	56.1	56.3	56.3	56.3	56.3	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.9
≥ 10000	59.0	59.4	59.4	59.7	59.9	59.9	59.9	59.9	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.5
≥ 9000	59.3	60.2	60.2	60.5	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	61.3
≥ 8000	60.6	61.1	61.1	61.3	61.6	61.6	61.6	61.6	61.6	61.8	61.8	61.8	61.8	61.8	61.8	62.2
≥ 7000	62.4	62.9	62.9	63.1	63.4	63.4	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	64.0
≥ 6000	63.8	64.4	64.4	64.7	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.5
≥ 5000	64.5	65.2	65.2	65.5	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	66.3
≥ 4500	64.8	65.5	65.6	66.1	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.9
≥ 4000	67.2	68.0	68.2	68.8	69.1	69.1	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.7
≥ 3500	68.2	69.0	69.1	69.8	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.7
≥ 3000	71.6	72.6	72.7	73.4	73.7	73.7	73.7	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	74.3
≥ 2500	75.4	76.5	76.6	77.5	77.7	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	78.3
≥ 2000	78.6	80.0	80.3	81.2	81.5	81.5	81.6	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	82.2
≥ 1800	79.4	80.9	81.2	82.2	82.5	82.6	82.9	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.6
≥ 1500	81.5	83.3	83.6	84.6	84.8	85.0	85.4	85.4	85.4	85.7	85.7	85.7	85.7	85.7	85.7	86.1
≥ 1200	83.0	85.0	85.3	86.6	87.1	87.2	87.6	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	88.3
≥ 1000	84.7	87.2	87.5	88.9	89.3	89.4	89.8	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.5
≥ 900	85.0	87.6	87.9	89.6	90.0	90.4	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.8
≥ 800	85.4	88.3	88.6	90.3	90.7	91.1	91.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.6
≥ 700	85.8	89.0	89.3	91.0	91.4	91.8	92.8	92.9	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.6
≥ 600	86.0	89.6	89.8	91.8	92.2	92.6	93.7	93.9	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.7
≥ 500	86.0	90.3	90.7	92.6	93.2	93.6	95.0	95.1	95.1	95.4	95.5	95.5	95.5	95.5	95.5	96.0
≥ 400	86.0	90.3	91.0	93.2	93.7	94.2	95.8	96.0	96.0	96.5	96.9	96.9	96.9	96.9	96.9	97.4
≥ 300	86.0	90.5	91.4	93.6	94.3	94.9	96.5	97.1	97.1	98.1	98.5	98.5	98.5	98.5	98.5	98.9
≥ 200	86.0	90.5	91.4	93.7	94.7	95.3	96.9	97.5	97.5	98.6	99.0	99.0	99.0	99.0	99.0	99.4
≥ 100	86.0	90.5	91.4	93.7	94.7	95.3	96.9	97.5	97.5	98.6	99.0	99.0	99.2	99.2	99.2	99.6
≥ 0	86.0	90.5	91.4	93.7	94.7	95.3	96.9	97.5	97.5	98.6	99.0	99.0	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 719

2
FEDERAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14
STATION

HECTOR APT FARGO ND
STATION NAME

73-80
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	45.1	45.9	46.0	46.1	46.4	46.5	46.6	46.6	46.6	46.7	46.8	46.8	46.8	46.8	46.8	47.0
≥ 20000	49.6	50.6	50.7	50.8	51.1	51.2	51.3	51.4	51.4	51.5	51.5	51.5	51.6	51.6	51.6	51.7
≥ 18000	49.8	50.8	51.0	51.1	51.4	51.5	51.6	51.6	51.6	51.8	51.8	51.8	51.8	51.8	51.9	52.0
≥ 16000	49.9	50.9	51.1	51.1	51.4	51.5	51.6	51.7	51.7	51.8	51.8	51.8	51.9	51.9	51.9	52.0
≥ 14000	51.1	52.0	52.2	52.3	52.6	52.6	52.8	52.8	52.8	52.9	53.0	53.0	53.0	53.0	53.0	53.2
≥ 12000	52.9	54.0	54.2	54.3	54.6	54.6	54.8	54.8	54.8	54.9	55.0	55.0	55.0	55.0	55.0	55.2
≥ 10000	56.6	57.6	57.8	57.9	58.3	58.4	58.5	58.6	58.6	58.7	58.7	58.7	58.8	58.8	58.8	58.9
≥ 9000	57.4	58.4	58.6	58.7	59.1	59.2	59.3	59.4	59.4	59.5	59.5	59.5	59.6	59.6	59.6	59.7
≥ 8000	58.2	59.3	59.5	59.7	60.0	60.1	60.2	60.3	60.3	60.4	60.5	60.5	60.5	60.5	60.5	60.7
≥ 7000	59.4	60.6	60.8	61.0	61.3	61.4	61.5	61.6	61.6	61.7	61.8	61.8	61.8	61.8	61.8	62.0
≥ 6000	60.3	61.6	61.9	62.0	62.4	62.4	62.6	62.6	62.6	62.8	62.8	62.8	62.9	62.9	62.9	63.0
≥ 5000	61.1	62.5	62.8	63.0	63.3	63.4	63.6	63.6	63.6	63.8	63.8	63.8	63.9	63.9	63.9	64.0
≥ 4500	62.1	63.6	63.8	64.1	64.4	64.5	64.7	64.7	64.7	64.9	64.9	64.9	64.9	64.9	65.0	65.1
≥ 4000	64.1	65.7	66.1	66.3	66.7	66.8	67.0	67.0	67.0	67.2	67.2	67.2	67.3	67.3	67.3	67.4
≥ 3500	65.1	66.8	67.1	67.4	67.8	67.9	68.1	68.1	68.1	68.3	68.3	68.3	68.3	68.3	68.4	68.5
≥ 3000	67.5	69.3	69.6	70.0	70.4	70.5	70.7	70.7	70.7	70.9	70.9	70.9	71.0	71.0	71.0	71.1
≥ 2500	70.9	73.0	73.5	73.9	74.4	74.5	74.8	74.9	74.9	75.0	75.1	75.1	75.1	75.1	75.2	75.3
≥ 2000	74.6	77.2	77.7	78.3	78.9	79.1	79.4	79.5	79.5	79.7	79.8	79.8	79.8	79.8	79.8	80.0
≥ 1800	75.8	78.5	79.0	79.6	80.3	80.5	80.9	81.0	81.0	81.2	81.2	81.2	81.3	81.3	81.3	81.5
≥ 1500	78.2	81.4	81.9	82.6	83.4	83.7	84.1	84.3	84.3	84.6	84.6	84.6	84.7	84.7	84.7	84.8
≥ 1200	80.3	84.2	84.8	85.6	86.6	86.9	87.4	87.7	87.8	88.0	88.0	88.0	88.1	88.1	88.1	88.3
≥ 1000	81.6	85.8	86.6	87.5	88.5	88.9	89.4	89.8	89.8	90.1	90.1	90.1	90.2	90.2	90.2	90.3
≥ 900	82.2	86.6	87.4	88.4	89.5	89.9	90.5	90.8	90.9	91.2	91.2	91.2	91.3	91.3	91.3	91.5
≥ 800	82.5	87.2	88.0	89.0	90.1	90.6	91.3	91.6	91.7	92.0	92.0	92.0	92.1	92.1	92.2	92.3
≥ 700	82.9	87.9	88.8	89.9	91.0	91.5	92.2	92.6	92.7	93.0	93.1	93.1	93.2	93.2	93.2	93.3
≥ 600	83.3	88.8	89.7	91.0	92.1	92.7	93.5	93.9	94.0	94.4	94.5	94.5	94.6	94.6	94.6	94.8
≥ 500	83.5	89.2	90.2	91.6	92.8	93.5	94.4	94.9	95.0	95.4	95.5	95.5	95.6	95.6	95.7	95.8
≥ 400	83.5	89.4	90.6	92.2	93.4	94.2	95.3	95.9	96.0	96.4	96.7	96.7	96.8	96.8	96.9	97.0
≥ 300	83.5	89.5	90.7	92.4	93.8	94.8	96.0	96.7	96.8	97.4	97.7	97.7	97.9	97.9	98.0	98.1
≥ 200	83.6	89.6	90.8	92.6	94.1	95.0	96.2	97.0	97.1	97.9	98.2	98.2	98.6	98.6	98.7	98.9
≥ 100	83.6	89.6	90.8	92.6	94.1	95.0	96.3	97.1	97.2	98.0	98.4	98.4	98.9	99.0	99.2	99.6
≥ 0	83.6	89.6	90.8	92.6	94.1	95.0	96.3	97.1	97.2	98.0	98.4	98.4	98.9	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 5759

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	38.7	39.9	40.3	40.6	40.6	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	41.1	41.1	41.4
≥ 20000	40.3	42.2	42.6	42.9	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.4	43.4	43.7
≥ 18000	40.6	42.5	42.9	43.1	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.7	43.7	44.0
≥ 16000	40.6	42.5	42.9	43.1	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.7	43.7	44.0
≥ 14000	41.1	43.0	43.4	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.2	44.2	44.5
≥ 12000	42.7	44.9	45.3	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	46.1	46.1	46.4
≥ 10000	47.0	49.6	50.1	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.9	50.9	51.2
≥ 9000	49.1	51.6	52.4	52.7	52.8	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.5	53.5	53.8
≥ 8000	50.5	53.1	53.9	54.2	54.3	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	55.0	55.0	55.2
≥ 7000	53.0	55.5	56.3	56.6	56.7	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.4	57.4	57.7
≥ 6000	55.5	58.2	59.3	59.5	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.3	60.3	60.6
≥ 5000	57.5	60.5	61.6	62.0	62.4	62.5	62.6	62.8	62.8	62.8	62.8	62.8	62.8	63.2	63.2	63.4
≥ 4500	59.1	62.1	63.2	63.6	64.0	64.1	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.8	64.8	65.1
≥ 4000	61.4	64.7	65.7	66.3	66.7	66.8	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.7
≥ 3500	62.5	66.0	67.1	67.6	68.0	68.1	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.8	68.8	69.1
≥ 3000	64.0	68.0	69.1	69.9	70.4	70.6	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.4	71.4	71.6
≥ 2500	65.6	70.0	71.2	72.6	73.1	73.3	73.5	73.8	73.8	73.8	73.8	73.8	73.8	74.2	74.2	74.5
≥ 2000	66.8	72.3	73.7	75.3	76.1	76.2	76.5	76.7	76.7	76.7	76.7	76.7	76.7	77.2	77.2	77.4
≥ 1800	67.7	73.8	75.3	76.9	77.7	77.8	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.8	78.8	79.0
≥ 1500	70.6	76.9	78.4	80.2	81.0	81.2	81.5	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.4
≥ 1200	71.9	78.6	80.2	82.1	82.9	83.2	83.5	83.7	83.7	83.7	83.7	83.7	83.7	84.1	84.1	84.4
≥ 1000	72.7	80.0	82.1	84.4	85.1	85.5	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.7	86.7	87.0
≥ 900	73.3	80.8	82.9	85.3	86.2	86.4	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.4	87.4	87.8
≥ 800	73.9	81.5	83.6	86.2	87.0	87.2	87.8	88.0	88.0	88.0	88.0	88.0	88.2	88.2	88.6	88.8
≥ 700	74.6	82.5	84.8	87.5	88.4	88.7	89.4	89.7	89.7	89.7	89.7	89.7	89.8	89.8	90.2	90.2
≥ 600	75.0	83.3	86.1	88.7	89.7	89.9	90.6	90.9	90.9	90.9	90.9	91.0	91.0	91.4	91.4	92.1
≥ 500	75.5	84.0	87.2	90.3	91.3	91.8	92.6	92.9	92.9	92.9	93.0	93.0	93.0	93.4	93.4	94.1
≥ 400	75.5	84.3	87.5	90.7	92.2	93.0	93.8	94.1	94.1	94.1	94.1	94.4	94.4	95.0	95.0	95.7
≥ 300	75.5	84.4	87.8	91.1	93.0	94.1	94.9	95.3	95.3	95.3	95.3	95.6	95.6	96.4	96.5	97.2
≥ 200	75.5	84.4	87.8	91.3	93.0	94.1	95.0	95.4	95.4	95.4	95.8	96.4	96.4	97.3	97.6	98.3
≥ 100	75.5	84.4	87.8	91.3	93.0	94.1	95.0	95.4	95.6	96.0	96.6	96.9	98.0	98.3	99.3	99.9
≥ 0	75.5	84.4	87.8	91.3	93.0	94.1	95.0	95.4	95.6	96.1	96.8	97.0	98.1	98.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
AFM ETAC
AFM WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING ≥ 20000	39.1 41.7	40.3 42.5	40.9 43.0	41.1 43.3	41.5 43.7	41.5 43.7	41.5 43.8	41.7 44.0	41.7 44.0	41.7 44.0	41.7 44.0	41.7 44.0	41.7 44.0	41.8 44.1	41.8 44.1	42.2 44.5
≥ 18000 IV 16000	42.1 42.1	43.5 43.5	44.1 44.1	44.4 44.4	44.8 44.8	44.8 44.8	44.9 44.9	45.0 45.0	45.0 45.0	45.0 45.0	45.0 45.0	45.0 45.0	45.0 45.0	45.2 45.2	45.2 45.2	45.6 45.6
IV 14000 IV 12000	42.9 44.2	44.4 45.7	44.9 46.2	45.2 46.5	45.6 46.9	45.6 46.9	45.7 47.0	45.8 47.2	45.8 47.2	45.8 47.2	45.8 47.2	45.8 47.2	45.8 47.2	46.0 47.3	46.0 47.3	46.4 47.7
IV 10000 IV 9000	46.9 49.1	49.1 51.3	49.6 51.9	50.0 52.3	50.4 52.7	50.4 52.7	50.5 52.8	50.7 53.0	50.7 53.0	50.7 53.0	50.7 53.0	50.7 53.0	50.7 53.0	50.8 53.1	50.8 53.1	51.2 53.5
≥ 8000 IV 7000	49.9 51.6	52.3 54.0	53.0 55.0	53.5 55.9	53.9 56.3	53.9 56.3	54.0 56.5	54.2 56.6	54.2 56.6	54.2 56.6	54.2 56.6	54.2 56.6	54.2 56.6	54.3 56.7	54.3 56.7	54.7 57.1
≥ 6000 IV 5000	53.4 55.0	55.9 57.8	56.9 58.7	57.9 59.8	59.3 60.2	58.5 60.3	58.6 60.5	58.7 60.6	58.7 60.6	58.7 60.6	58.7 60.6	58.7 60.6	58.7 60.6	58.9 60.8	58.9 60.8	59.3 61.2
≥ 4500 IV 4000	55.6 59.1	58.5 62.6	59.5 63.7	60.6 65.2	61.2 65.7	61.3 65.9	61.4 66.0	61.6 66.1	61.6 66.1	61.6 66.1	61.6 66.1	61.6 66.1	61.6 66.1	61.7 66.3	61.7 66.3	62.1 66.7
IV 3500 IV 3000	60.2 61.7	63.7 65.5	64.8 66.7	66.4 68.3	66.9 69.0	67.1 69.1	67.2 69.2	67.3 69.4	67.3 69.4	67.3 69.4	67.3 69.4	67.3 69.4	67.3 69.4	67.5 69.5	67.5 69.5	67.9 70.4
≥ 2500 IV 2000	63.6 64.9	67.6 69.1	69.1 71.0	71.0 73.1	71.8 74.5	71.9 74.6	72.2 75.0	72.3 75.1	72.3 75.1	72.3 75.1	72.3 75.1	72.3 75.1	72.3 75.1	72.4 75.3	72.4 75.3	72.8 75.7
≥ 1800 IV 1500	66.4 67.9	71.2 72.8	73.3 74.9	75.5 77.3	76.9 78.6	77.0 78.8	77.4 79.2	77.6 79.3	77.6 79.3	77.6 79.3	77.6 79.3	77.6 79.3	77.6 79.3	77.7 79.4	77.7 79.4	78.1 79.8
≥ 1200 IV 1000	69.6 71.1	75.3 76.9	77.6 79.2	80.1 81.9	81.6 83.5	82.0 83.9	82.7 84.5	82.8 84.7	82.8 84.7	82.8 84.7	82.8 84.7	82.8 84.7	82.8 84.7	82.9 84.8	82.9 84.8	83.3 85.2
IV 900 IV 800	71.8 71.9	77.8 78.2	81.1 80.5	82.8 83.3	84.4 84.9	84.8 85.5	85.6 86.3	85.8 86.6	85.8 86.6	85.9 86.7	85.9 86.7	85.9 86.7	85.9 86.7	86.0 86.8	86.0 86.8	86.4 87.2
IV 700 IV 600	72.4 72.7	79.3 80.1	81.6 83.3	84.4 86.4	86.2 88.2	86.7 88.8	87.5 89.7	87.8 89.9	87.8 89.9	87.9 90.1	87.9 90.2	87.9 90.2	87.9 90.2	88.0 90.3	88.0 90.3	88.4 91.1
≥ 500 IV 400	73.4 73.4	81.2 81.2	84.4 84.4	87.9 87.9	89.8 90.5	90.7 91.5	91.5 92.5	91.8 92.9	91.8 92.9	92.1 93.1	92.2 93.3	92.2 93.3	92.2 93.3	92.3 93.5	92.3 93.5	93.1 94.4
IV 300 IV 200	73.5 73.5	81.3 81.3	84.7 84.7	88.4 88.4	91.5 91.5	92.9 92.9	93.8 94.0	94.4 94.6	94.4 94.6	94.6 95.2	95.2 95.7	95.2 95.7	95.2 95.7	95.7 96.4	95.7 96.4	96.5 97.4
IV 100 IV 0	73.5 73.5	81.3 81.3	84.7 84.7	88.4 88.4	91.5 91.5	92.9 92.9	94.0 94.0	94.6 94.6	94.6 94.6	95.2 95.2	95.7 95.7	95.7 95.7	95.7 95.7	96.0 96.0	96.0 96.0	96.6 96.6

TOTAL NUMBER OF OBSERVATIONS 744

2
 CLIMAT CLIMATOLOGY BRANCH
 METAC
 WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1114 HECTOR APT FARGO ND
 STATION STATION NAME

73-80
 YEARS

DEC
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0600
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/4	≥ 0
NO CEILING	35.5	37.4	37.6	37.9	38.3	38.4	38.4	38.4	38.4	38.6	38.7	38.7	38.8	39.0	39.7	39.2
≥ 20000	38.7	40.9	41.1	41.8	42.2	42.3	42.3	42.3	42.3	42.5	42.6	42.6	42.7	42.9	43.1	43.1
≥ 18000	39.4	41.5	41.8	42.5	42.9	43.0	43.0	43.0	43.0	43.1	43.3	43.3	43.4	43.5	43.8	43.8
≥ 16000	39.4	41.5	41.8	42.5	42.9	43.0	43.0	43.0	43.0	43.1	43.3	43.3	43.4	43.5	43.8	43.8
≥ 14000	40.5	42.6	42.9	43.5	44.0	44.1	44.1	44.1	44.1	44.2	44.4	44.4	44.5	44.6	44.9	44.9
≥ 12000	42.1	44.4	44.6	45.3	45.7	45.8	45.8	45.8	45.8	46.0	46.1	46.1	46.2	46.4	46.6	46.6
≥ 10000	45.0	48.0	48.5	49.2	49.6	49.7	49.7	49.7	49.7	49.9	50.0	50.0	50.1	50.3	50.5	50.5
≥ 9000	47.3	50.4	50.9	51.6	52.0	52.2	52.2	52.2	52.2	52.3	52.4	52.4	52.6	52.7	53.0	53.0
≥ 8000	47.8	50.9	51.5	52.3	52.7	52.8	52.8	52.8	52.8	53.0	53.1	53.1	53.2	53.4	53.6	53.6
≥ 7000	49.7	52.8	53.4	54.2	54.7	54.8	54.8	54.8	54.8	55.0	55.1	55.1	55.2	55.4	55.6	55.6
≥ 6000	51.7	54.8	55.4	56.2	56.7	56.9	56.9	56.9	56.9	57.0	57.1	57.1	57.3	57.4	57.7	57.7
≥ 5000	53.4	56.6	57.1	57.9	58.5	58.6	58.6	58.6	58.6	58.7	58.9	58.9	59.0	59.1	59.4	59.4
≥ 4500	54.2	57.8	58.3	59.3	59.8	59.9	59.9	60.1	60.1	60.2	60.3	60.3	60.5	60.6	60.9	60.9
≥ 4000	56.3	60.8	61.4	62.8	63.4	63.7	63.8	64.0	64.0	64.1	64.2	64.2	64.4	64.5	64.8	64.8
≥ 3500	57.7	62.4	63.2	64.5	65.2	65.5	65.6	65.7	65.7	65.9	66.0	66.0	66.1	66.3	66.5	66.5
≥ 3000	59.8	64.8	65.7	67.2	68.0	68.3	68.4	68.5	68.5	68.7	68.8	68.8	69.0	69.1	69.4	69.4
≥ 2500	62.6	67.7	68.7	70.3	71.4	71.6	71.8	71.9	71.9	72.2	72.3	72.3	72.4	72.6	72.8	72.8
≥ 2000	64.7	69.9	71.0	72.7	73.9	74.2	74.5	74.7	74.7	75.0	75.1	75.1	75.3	75.4	75.7	75.7
≥ 1800	65.6	71.1	72.6	74.5	75.7	76.1	76.3	76.6	76.6	76.9	77.0	77.0	77.2	77.3	77.6	77.6
≥ 1500	66.4	72.6	74.5	76.6	78.0	78.4	78.8	79.2	79.2	79.6	79.7	79.7	79.8	80.0	80.2	80.2
≥ 1200	67.6	74.3	76.6	78.9	80.4	80.9	81.5	82.0	82.0	82.4	82.5	82.5	82.7	82.8	83.1	83.1
≥ 1000	68.0	74.9	77.6	80.1	81.9	82.4	82.9	83.6	83.6	84.1	84.3	84.3	84.4	84.5	84.8	84.8
≥ 900	69.2	76.3	79.0	81.9	83.6	84.1	84.8	85.5	85.5	86.2	86.3	86.3	86.6	86.7	87.0	87.0
≥ 800	70.0	77.6	80.5	83.5	85.5	86.2	86.8	87.5	87.5	88.4	88.6	88.6	89.0	89.1	89.4	89.4
≥ 700	70.2	77.7	80.8	83.7	85.8	86.4	87.1	87.8	87.8	88.8	89.0	89.0	89.4	89.5	89.8	89.8
≥ 600	70.7	78.8	82.0	84.9	87.2	88.0	88.8	89.7	89.7	91.0	91.1	91.1	91.5	91.7	91.9	91.9
≥ 500	70.7	78.9	82.1	85.3	88.0	89.0	89.8	90.6	90.6	91.9	92.1	92.1	92.5	92.6	92.9	92.9
≥ 400	71.0	79.4	82.7	86.0	89.0	89.9	90.7	91.5	91.5	92.9	93.0	93.0	93.4	93.5	93.8	94.0
≥ 300	71.1	79.6	83.1	86.6	90.1	91.0	92.1	93.0	93.1	94.8	95.0	95.0	95.6	95.7	96.0	96.1
≥ 200	71.1	79.6	83.1	86.7	90.9	91.8	92.9	94.0	94.2	96.0	96.4	96.4	97.2	97.4	98.0	98.1
≥ 100	71.1	79.6	83.2	86.8	91.0	91.9	93.0	94.1	94.4	96.1	96.5	96.6	97.6	98.0	99.2	99.3
≥ 0	71.1	79.6	83.2	86.8	91.0	91.9	93.0	94.1	94.4	96.1	96.6	96.8	97.7	98.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14 14 HECTOR APT FARGO ND

73-80

OLC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	34.1	37.5	38.3	38.6	39.1	39.2	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.9	40.1	40.1
≥ 20000	39.8	44.6	45.4	46.1	46.8	47.0	47.7	48.0	48.1	48.1	48.1	48.1	48.1	48.4	48.5	48.5
≥ 18000	39.8	44.6	45.4	46.1	46.8	47.0	47.7	48.0	48.1	48.1	48.1	48.1	48.1	48.4	48.5	48.5
≥ 16000	39.8	44.6	45.4	46.1	46.8	47.0	47.7	48.0	48.1	48.1	48.1	48.1	48.1	48.4	48.5	48.5
≥ 14000	41.7	46.0	46.8	47.4	48.1	48.4	49.1	49.3	49.5	49.5	49.5	49.5	49.5	49.7	49.9	49.9
≥ 12000	43.3	48.3	49.1	49.9	50.5	50.8	51.5	51.7	51.9	51.9	51.9	51.9	51.9	52.2	52.3	52.3
≥ 10000	45.4	50.8	51.7	52.7	53.5	53.8	54.4	54.7	54.8	54.8	54.8	54.8	54.8	55.1	55.2	55.2
≥ 9000	46.8	52.4	53.4	54.4	55.2	55.5	56.2	56.5	56.6	56.6	56.6	56.6	56.6	56.9	57.0	57.0
≥ 8000	47.8	53.5	54.4	55.5	56.5	56.7	57.4	57.7	57.8	57.8	57.8	57.8	57.8	58.1	58.2	58.2
≥ 7000	49.7	55.4	56.3	57.5	58.6	58.9	59.5	59.8	59.9	59.9	59.9	59.9	59.9	60.2	60.3	60.3
≥ 6000	50.7	56.6	57.5	58.7	59.8	60.1	61.0	61.3	61.4	61.4	61.4	61.4	61.4	61.7	61.8	61.8
≥ 5000	51.6	58.1	59.0	60.2	61.6	61.8	63.0	63.3	63.4	63.4	63.4	63.4	63.4	63.7	63.8	63.8
≥ 4500	52.0	58.9	59.8	61.0	62.4	62.6	63.8	64.2	64.4	64.5	64.5	64.5	64.5	64.8	64.9	64.9
≥ 4000	54.0	61.2	62.2	63.4	64.9	65.2	66.5	66.9	67.1	67.3	67.3	67.3	67.3	67.6	67.7	67.7
≥ 3500	54.4	61.8	62.9	64.1	65.7	66.0	67.3	67.7	67.9	68.1	68.1	68.1	68.1	68.4	68.5	68.5
≥ 3000	55.8	63.7	64.8	66.1	67.9	68.1	69.6	70.0	70.2	70.4	70.4	70.4	70.4	70.7	70.8	70.8
≥ 2500	58.2	66.8	68.0	69.6	72.0	72.3	74.1	74.5	74.6	74.9	74.9	74.9	74.9	75.1	75.3	75.3
≥ 2000	59.1	68.3	69.6	71.4	73.9	74.2	75.9	76.3	76.5	76.9	76.9	76.9	76.9	77.0	77.3	77.4
≥ 1800	59.7	68.8	70.3	72.3	74.9	75.1	76.9	77.3	77.4	77.8	77.8	77.8	77.8	78.0	78.2	78.4
≥ 1500	61.4	70.8	72.3	74.3	76.9	77.6	79.8	80.4	80.5	81.3	81.3	81.6	81.9	82.0	82.1	82.1
≥ 1200	62.1	71.6	73.4	75.4	78.1	79.0	81.3	82.0	82.1	82.9	83.3	83.6	83.9	84.0	84.1	84.1
≥ 1000	62.6	72.4	74.5	76.5	79.3	80.6	83.2	83.9	84.0	84.9	85.6	86.0	86.3	86.4	86.6	86.6
≥ 900	62.6	72.7	74.7	77.0	80.1	81.5	84.0	85.1	85.2	86.3	87.0	87.4	87.6	87.9	88.0	88.0
≥ 800	63.0	73.3	75.4	77.7	81.0	82.8	85.3	86.7	87.0	88.2	89.0	89.4	89.8	90.1	90.2	90.2
≥ 700	63.0	73.4	75.7	78.0	81.3	83.1	85.6	87.0	87.2	88.4	89.2	89.7	90.1	90.3	90.5	90.5
≥ 600	63.3	73.9	76.3	78.6	82.7	84.5	87.1	88.4	88.7	89.9	90.7	91.1	91.5	91.8	92.1	92.1
≥ 500	63.4	74.2	76.6	78.9	83.1	85.1	87.8	89.1	89.4	90.7	91.5	91.9	92.3	92.6	93.0	93.0
≥ 400	63.8	74.7	77.2	79.4	83.9	85.9	89.2	90.6	90.9	92.2	93.0	93.4	93.8	94.1	94.5	94.8
≥ 300	64.1	75.0	77.4	80.0	84.8	87.1	90.7	92.2	92.5	94.1	94.9	95.4	95.8	96.1	96.5	96.8
≥ 200	64.1	75.0	77.4	80.1	85.1	87.4	91.1	92.7	93.0	95.0	96.2	96.8	97.6	97.8	98.5	98.8
≥ 100	64.1	75.0	77.4	80.1	85.1	87.4	91.1	92.7	93.0	95.0	96.4	97.0	97.8	98.1	99.3	99.7
≥ 0	64.1	75.0	77.4	80.1	85.1	87.4	91.1	92.7	93.0	95.2	96.5	97.2	98.0	98.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2
GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1014

HECTOR APT FARGO ND

73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	37.1	39.5	39.8	40.3	40.6	40.6	41.3	41.3	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4
≥ 20000	45.1	48.1	48.7	49.2	49.5	49.5	50.4	50.4	50.4	50.4	50.8	50.8	50.8	50.8	50.8	50.8
≥ 18000	45.4	48.5	49.1	49.6	49.9	49.9	50.8	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2
≥ 16000	45.4	48.5	49.1	49.6	49.9	49.9	50.8	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2
≥ 14000	47.1	50.5	51.1	51.6	51.9	51.9	52.8	52.8	52.8	52.8	53.2	53.2	53.2	53.2	53.2	53.2
≥ 12000	48.1	51.6	52.2	52.7	53.0	53.0	53.9	53.9	53.9	53.9	54.3	54.3	54.3	54.3	54.3	54.3
≥ 10000	50.1	53.8	54.3	54.8	55.1	55.1	56.0	56.2	56.2	56.2	56.7	56.7	56.7	56.7	56.7	56.7
≥ 9000	51.7	55.8	56.3	57.1	57.4	57.4	58.3	58.5	58.5	58.6	59.1	59.1	59.1	59.1	59.1	59.1
≥ 8000	52.6	56.6	57.1	57.9	58.3	58.3	59.3	59.4	59.4	59.5	60.1	60.1	60.1	60.1	60.1	60.1
≥ 7000	54.4	58.6	59.1	59.9	60.3	60.3	61.3	61.4	61.4	61.6	62.1	62.1	62.1	62.1	62.1	62.1
≥ 6000	55.9	60.1	60.6	61.4	61.8	61.8	62.8	62.9	62.9	63.0	63.6	63.6	63.6	63.6	63.6	63.6
≥ 5000	56.5	63.8	61.4	62.2	62.6	62.6	63.6	63.7	63.7	63.8	64.4	64.4	64.4	64.4	64.4	64.4
≥ 4500	57.1	61.4	62.2	63.0	63.4	63.4	64.4	64.7	64.7	64.8	65.3	65.3	65.3	65.3	65.3	65.3
≥ 4000	58.3	63.0	64.1	64.9	65.7	65.7	66.7	67.1	67.1	67.2	67.9	67.9	67.9	67.9	67.9	67.9
≥ 3500	58.3	63.4	64.5	65.3	66.1	66.3	67.2	67.6	67.6	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 3000	59.8	64.9	66.1	67.1	68.3	68.4	69.9	70.3	70.3	70.4	71.1	71.1	71.1	71.1	71.1	71.1
≥ 2500	61.3	66.9	68.1	69.2	70.6	70.7	72.2	72.8	72.8	73.0	73.7	73.7	73.7	73.7	73.7	73.7
≥ 2000	63.6	69.5	70.8	71.9	73.4	73.5	75.1	75.9	76.1	76.2	76.9	76.9	76.9	76.9	76.9	76.9
≥ 1800	64.4	70.4	71.8	72.8	74.3	74.7	76.3	77.2	77.3	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1500	65.3	71.8	73.3	74.5	75.9	76.6	78.6	79.4	79.6	79.7	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1200	66.3	73.1	75.0	76.2	77.7	78.5	80.8	81.9	82.0	82.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 1000	66.7	73.9	75.8	77.2	79.0	80.0	82.5	84.1	84.3	84.8	85.9	86.0	86.2	86.2	86.2	86.2
≥ 900	67.1	74.7	76.7	78.2	80.4	81.3	83.9	85.5	85.6	86.2	87.2	87.4	87.5	87.5	87.5	87.5
≥ 800	67.5	75.4	78.0	79.8	82.3	83.2	85.8	87.5	87.6	88.6	89.8	89.9	90.1	90.1	90.1	90.1
≥ 700	67.6	75.5	78.2	80.1	82.7	83.6	86.4	88.2	88.3	89.4	90.7	90.9	91.0	91.0	91.0	91.0
≥ 600	67.7	76.3	79.0	81.0	83.6	84.5	87.9	89.9	90.1	91.1	92.5	92.6	92.7	92.7	92.7	92.7
≥ 500	67.7	76.5	79.3	81.6	84.4	85.5	89.4	91.5	91.7	93.0	94.4	94.6	94.9	95.0	95.2	95.2
≥ 400	67.7	76.6	79.6	82.0	84.9	86.3	90.3	92.5	92.6	94.0	95.3	95.6	95.8	96.0	96.1	96.5
≥ 300	67.7	76.6	79.6	82.1	85.8	87.2	91.5	93.7	93.8	95.7	97.4	97.7	98.1	98.3	98.5	98.9
≥ 200	67.7	76.6	79.6	82.1	85.8	87.2	91.7	93.8	94.0	95.8	97.6	97.8	98.4	98.5	98.9	99.3
≥ 100	67.7	76.6	79.6	82.1	85.8	87.2	91.7	93.8	94.0	95.8	97.6	97.8	98.4	98.9	99.6	100.0
≥ 0	67.7	76.6	79.6	82.1	85.8	87.2	91.7	93.8	94.0	95.8	97.6	97.8	98.4	98.9	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10 14 HECTOR APT FAPGO ND

73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	39.7	40.3	41.4	41.7	41.7	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 20000	46.1	48.3	49.3	49.7	49.7	49.7	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.3
≥ 18000	46.5	48.7	49.7	50.1	50.1	50.1	50.3	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.7
≥ 16000	46.6	48.8	49.9	50.3	50.3	50.3	50.4	50.5	50.5	50.5	50.7	50.7	50.7	50.7	50.7	50.8
≥ 14000	47.3	49.7	50.8	51.2	51.2	51.2	51.3	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.9
≥ 12000	49.2	51.6	52.7	53.1	53.2	53.2	53.5	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	54.0
≥ 10000	52.6	55.4	56.5	56.9	57.3	57.3	57.5	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	58.1
≥ 9000	53.9	57.3	58.3	58.9	59.3	59.4	59.8	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.3
≥ 8000	54.7	58.2	59.4	59.9	60.3	60.5	60.9	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.4
≥ 7000	56.3	59.7	60.9	61.4	61.8	62.0	62.4	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.9
≥ 6000	58.2	61.6	62.8	63.3	63.7	64.0	64.5	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	65.1
≥ 5000	58.9	62.5	63.7	64.2	64.7	64.9	65.6	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.1
≥ 4500	59.5	63.4	64.7	65.3	65.7	66.0	66.7	66.9	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.2
≥ 4000	60.5	64.5	65.9	66.5	67.1	67.5	68.1	68.5	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.8
≥ 3500	61.3	65.3	66.9	67.6	68.1	68.7	69.4	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	70.0
≥ 3000	63.0	67.1	68.7	69.5	70.3	70.8	71.5	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.2
≥ 2500	63.4	67.6	69.4	70.3	71.2	71.9	72.8	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.5
≥ 2000	66.8	71.2	73.3	74.2	75.4	76.2	77.2	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.1
≥ 1800	67.6	72.3	74.3	75.4	76.6	77.4	78.4	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.3
≥ 1500	69.0	74.1	76.1	77.2	78.5	79.3	80.2	80.9	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.5
≥ 1200	69.4	75.1	77.3	78.6	80.2	81.2	82.1	83.2	83.2	84.0	84.1	84.1	84.1	84.1	84.1	84.3
≥ 1000	69.6	75.9	78.4	79.8	81.7	83.1	84.3	85.5	85.5	86.4	86.6	86.7	86.8	86.8	86.8	87.0
≥ 900	69.6	77.0	79.7	81.2	83.2	84.7	86.0	87.2	87.2	88.2	88.7	88.8	89.0	89.0	89.0	89.1
≥ 800	69.8	77.6	80.4	81.9	84.1	85.6	87.0	88.2	88.2	89.2	89.8	89.9	90.1	90.1	90.1	90.2
≥ 700	70.1	78.2	81.3	82.8	85.3	86.8	88.3	89.5	89.5	90.6	91.1	91.3	91.4	91.4	91.4	91.5
≥ 600	70.6	78.8	82.1	84.0	87.4	88.8	90.9	92.2	92.2	93.3	94.0	94.1	94.2	94.2	94.2	94.4
≥ 500	70.7	79.2	82.9	84.8	88.3	90.1	92.3	93.7	93.7	94.8	95.6	95.7	95.8	95.8	95.8	96.0
≥ 400	70.7	79.3	83.3	85.5	89.0	90.7	93.1	94.6	94.6	95.7	96.5	96.8	97.0	97.0	97.0	97.4
≥ 300	70.7	79.3	83.3	85.5	89.1	90.9	93.5	95.3	95.4	97.0	97.8	98.1	98.4	98.4	98.4	98.8
≥ 200	70.7	79.3	83.3	85.5	89.1	90.9	93.7	95.4	95.6	97.2	98.0	98.3	98.5	98.5	98.5	99.5
≥ 100	70.7	79.3	83.3	85.5	89.1	90.9	93.7	95.4	95.6	97.2	98.4	98.7	99.1	99.1	99.1	99.5
≥ 0	70.7	79.3	83.3	85.5	89.1	90.9	93.7	95.4	95.6	97.2	98.4	98.7	99.1	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 744

2

CEILING CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14
 STATION

RECTOR APT FARGO ND
 STATION NAME

73-80
 YEARS

DEC
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1810-2000
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥3/16	≥¼	≥0	
NO CEILING	43.4	45.6	46.1	46.8	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.3	47.3	47.4	47.6
≥ 20000	46.1	48.5	49.1	49.9	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.4	50.4	50.5	50.7
≥ 18000	46.6	49.1	49.6	50.4	50.5	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.9	50.9	51.1	51.2
≥ 16000	46.8	49.2	49.7	50.5	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.9	50.8	51.1	51.1	51.2
≥ 14000	48.1	50.5	51.1	51.9	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.4	52.4	52.6	52.7
≥ 12000	49.3	51.7	52.3	53.1	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.6	53.6	53.8	53.9
≥ 10000	52.4	54.8	55.4	56.2	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.7	56.7	56.9	57.0
≥ 9000	53.6	56.5	57.1	57.9	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.5	58.5	58.6	58.7
≥ 8000	55.2	58.1	58.7	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	60.1	60.1	60.2	60.3
≥ 7000	56.5	59.4	60.1	61.0	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.6	61.6	61.7	61.8
≥ 6000	57.7	61.3	61.7	62.6	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.2	63.2	63.3	63.4
≥ 5000	59.7	62.6	63.3	64.2	64.4	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.9	64.9	65.1	65.2
≥ 4500	59.8	63.6	64.2	65.2	65.3	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.9	65.9	66.0	66.1
≥ 4000	61.3	65.3	66.3	67.5	67.6	67.7	67.9	67.9	67.9	67.9	67.9	67.9	68.1	68.1	68.3	68.4
≥ 3500	61.7	65.7	66.7	67.9	68.1	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.7	68.7	68.8	69.0
≥ 3000	62.6	67.2	68.4	69.8	70.0	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.6	70.6	70.7	70.8
≥ 2500	64.9	69.8	71.0	72.4	73.0	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.7	73.7	73.8	73.9
≥ 2000	66.4	71.8	73.4	75.1	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.6	76.6	76.7	76.9
≥ 1800	67.3	72.8	74.6	76.3	77.2	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.8	77.8	78.0	78.1
≥ 1500	69.2	75.7	77.7	79.4	80.4	80.5	80.8	80.8	80.8	80.8	80.8	80.8	81.0	81.0	81.2	81.3
≥ 1200	70.4	77.3	79.6	81.5	82.7	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.5	83.5	83.6	83.7
≥ 1000	70.8	78.5	80.9	82.9	84.3	84.4	85.1	85.2	85.2	85.2	85.2	85.2	85.5	85.5	85.6	85.8
≥ 900	71.7	79.2	81.7	83.9	85.3	85.5	86.3	86.6	86.6	86.6	86.6	86.8	87.0	87.2	87.4	87.5
≥ 800	71.2	80.1	82.8	85.5	87.1	87.2	88.0	88.3	88.3	88.3	89.0	89.0	89.1	89.4	89.5	89.7
≥ 700	71.4	80.8	83.6	86.4	88.3	88.4	89.2	89.7	89.7	89.7	90.3	90.3	90.5	90.7	90.9	91.0
≥ 600	72.2	82.0	84.9	87.8	89.7	89.8	90.6	91.0	91.0	91.8	91.9	92.1	92.5	92.5	92.6	92.7
≥ 500	72.3	82.7	85.8	88.8	90.9	91.0	91.8	92.2	92.2	93.0	93.1	93.3	93.7	93.7	93.8	94.0
≥ 400	72.3	83.1	86.3	90.2	92.2	92.6	93.4	93.8	93.8	94.6	94.8	94.9	95.3	95.3	95.4	95.6
≥ 300	72.3	83.5	87.0	91.5	93.7	94.4	95.3	95.7	95.7	96.6	96.9	97.0	97.4	97.4	97.8	98.0
≥ 200	72.3	83.5	87.0	91.7	94.0	94.6	95.8	96.4	96.5	97.4	97.7	98.0	98.4	98.5	98.8	99.0
≥ 100	72.3	83.5	87.0	91.7	94.0	94.6	96.0	96.5	96.6	97.6	97.8	98.1	98.5	98.7	99.6	99.7
≥ 0	72.3	83.5	87.0	91.7	94.0	94.6	96.0	96.5	96.6	97.6	97.8	98.1	98.5	98.7	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 744

CEILING VERSUS VISIBILITY

1 - 14 HECTOR APT FARGO ND

73-87

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

150-2300
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 2000	40.1 41.4	42.3 43.8	42.3 43.8	44.6 44.2	42.6 44.2	42.6 44.2	42.6 44.2	42.6 44.2	42.6 44.2	42.6 44.2	42.7 44.4	42.7 44.4	43.3 44.9	43.4 45.0	43.5 45.2	43.5 45.2
IN 18000 N 6000	41.3 41.5	44.4 44.4	44.4 44.4	44.8 44.8	44.8 44.8	44.8 44.8	44.8 44.8	44.8 44.8	44.8 44.8	44.8 44.8	44.9 44.9	44.9 44.9	45.4 45.4	45.6 45.6	45.7 45.7	45.7 45.7
IN 14000 N 2000	43.4 44.2	46.0 47.4	46.0 47.4	46.4 47.8	46.4 47.8	46.4 47.8	46.4 47.8	46.4 47.8	46.4 47.8	46.4 47.8	46.5 48.0	46.5 48.0	47.0 48.5	47.2 48.5	47.3 48.8	47.3 48.8
IN 10000 N 9000	50.1 52.3	52.8 55.0	52.8 55.0	53.2 55.4	53.2 55.5	53.2 55.5	53.2 55.5	53.2 55.5	53.2 55.5	53.2 55.5	53.4 55.6	53.4 55.6	53.9 56.2	54.0 56.3	54.2 56.5	54.2 56.5
IN 8000 N 7000	53.2 55.1	56.0 57.9	56.0 59.1	56.5 58.6	56.6 58.7	56.6 58.7	56.6 58.7	56.6 58.7	56.6 58.7	56.6 58.7	56.7 58.9	56.7 58.9	56.7 59.4	57.3 59.5	57.4 59.7	57.5 59.7
IN 6000 N 5000	57.3 58.3	60.1 61.8	60.2 62.0	61.0 62.9	61.2 63.2	61.2 63.2	61.2 63.2	61.2 63.2	61.2 63.2	61.2 63.2	61.3 63.3	61.3 63.3	61.8 63.8	62.0 64.0	62.1 64.1	62.1 64.1
IN 4500 N 4000	59.3 61.4	63.2 65.1	63.2 65.3	64.2 66.7	64.5 66.9	64.5 66.9	64.5 66.9	64.5 66.9	64.5 66.9	64.5 66.9	64.5 67.1	64.7 67.1	64.7 67.6	65.2 67.7	65.3 67.9	65.5 67.9
IN 3500 N 3000	61.4 63.2	65.6 68.1	65.9 68.7	67.2 70.0	67.5 70.3	67.5 70.3	67.6 70.4	67.6 70.4	67.6 70.4	67.6 70.4	67.7 70.6	67.7 70.6	68.3 70.6	68.4 71.1	68.5 71.2	68.5 71.4
IN 2500 N 2000	64.7 67.1	70.4 73.3	71.1 74.3	72.6 75.9	73.0 76.5	73.0 76.5	73.1 76.6	73.1 76.6	73.1 76.6	73.1 76.6	73.3 76.7	73.3 76.7	73.8 77.3	73.8 77.4	73.9 77.6	74.1 77.6
IN 1800 N 1500	67.7 68.8	74.1 75.9	75.1 77.4	76.7 79.3	77.3 80.0	77.3 80.0	77.4 80.5	77.4 80.6	77.4 80.6	77.4 80.6	77.6 80.8	77.6 80.8	78.1 81.3	78.2 81.5	78.4 81.6	78.4 81.6
IN 1200 N 1000	71.1 72.3	78.6 80.5	80.5 83.1	82.7 85.3	83.5 86.6	83.5 86.6	84.1 87.4	84.3 87.5	84.3 87.5	84.3 87.5	84.4 87.6	84.4 87.6	84.9 88.2	85.1 88.3	85.2 88.4	85.2 88.4
IN 900 N 800	72.6 73.3	80.8 81.5	83.5 84.3	85.8 86.6	87.1 87.9	87.1 87.9	87.9 88.7	88.0 88.8	88.0 88.8	88.0 89.0	88.2 89.1	88.2 89.1	88.7 89.7	88.8 89.8	89.0 89.9	89.0 89.9
IN 700 N 600	73.9 74.1	82.3 82.7	85.3 85.8	87.9 88.6	89.4 90.3	89.4 90.3	90.3 91.3	90.5 91.4	90.5 91.4	90.5 91.5	90.6 91.7	90.7 91.7	91.3 92.2	91.4 92.3	91.5 92.9	91.5 92.9
IN 500 N 400	74.2 74.2	83.3 83.3	86.4 86.8	89.4 89.9	91.1 91.9	91.1 92.2	92.2 93.5	92.5 93.8	92.5 93.8	92.6 94.0	92.7 94.1	92.7 94.1	93.3 94.6	93.4 94.8	94.0 95.3	94.0 95.3
IN 300 N 200	74.2 74.2	83.5 83.6	87.2 87.4	91.0 91.1	93.1 93.5	93.4 93.8	94.9 95.4	95.4 96.1	95.6 96.2	96.0 96.6	96.1 96.9	96.1 96.9	96.6 97.7	96.8 98.3	97.3 98.8	97.3 98.8
IN 100 0	74.2 74.3	83.6 83.7	87.4 87.5	91.1 91.3	93.5 93.7	93.8 94.0	95.4 95.6	96.1 96.2	96.2 96.4	96.6 96.8	96.9 97.0	96.9 97.0	98.0 98.1	98.8 98.9	99.5 99.9	99.5 100.0

TOTAL NUMBER OF OBSERVATIONS 744

2

CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 HECTOR APT FARGO ND

73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	39.3	40.4	40.5	41.2	41.4	41.5	41.6	41.6	41.6	41.7	41.7	41.7	41.9	42.0	42.2	42.3
≥ 20000	42.3	44.9	45.4	45.9	46.1	46.2	46.4	46.5	46.5	46.6	46.6	46.6	46.9	46.9	47.1	47.2
≥ 18000	42.3	45.3	45.9	46.4	46.6	46.7	46.9	47.0	47.0	47.0	47.1	47.1	47.3	47.4	47.6	47.7
≥ 16000	42.3	45.4	45.9	46.4	46.6	46.7	47.0	47.0	47.0	47.1	47.2	47.2	47.4	47.4	47.6	47.7
≥ 14000	43.3	46.6	47.1	47.6	47.8	47.9	48.2	48.3	48.3	48.3	48.4	48.4	48.6	48.7	48.8	49.0
≥ 12000	43.5	48.2	48.7	49.2	49.5	49.6	49.8	49.9	49.9	50.0	50.1	50.1	50.3	50.3	50.5	50.6
≥ 10000	43.7	51.8	52.4	52.9	53.2	53.3	53.6	53.7	53.7	53.7	53.8	53.8	54.0	54.1	54.3	54.4
≥ 9000	43.5	53.8	54.4	55.0	55.4	55.5	55.8	55.9	55.9	55.9	56.0	56.0	56.3	56.3	56.5	56.6
≥ 8000	51.5	54.8	55.5	56.2	56.5	56.6	56.9	57.0	57.0	57.1	57.2	57.2	57.4	57.5	57.6	57.8
≥ 7000	53.3	56.7	57.4	58.1	58.6	58.7	58.9	59.0	59.1	59.1	59.2	59.2	59.4	59.5	59.6	59.8
≥ 6000	55.0	58.5	59.3	60.1	60.5	60.6	61.0	61.1	61.1	61.1	61.2	61.2	61.5	61.5	61.7	61.8
≥ 5000	56.3	60.1	60.9	61.7	62.2	62.3	62.7	62.8	62.9	62.9	63.0	63.0	63.2	63.3	63.4	63.6
≥ 4500	57.1	61.1	61.9	62.8	63.3	63.4	63.8	64.0	64.0	64.1	64.2	64.2	64.4	64.4	64.6	64.8
≥ 4000	59.0	63.4	64.3	65.4	66.0	66.2	66.6	66.8	66.8	66.9	67.0	67.0	67.3	67.3	67.5	67.6
≥ 3500	59.7	64.2	65.2	66.3	67.0	67.2	67.6	67.8	67.8	67.9	68.0	68.0	68.3	68.3	68.5	68.6
≥ 3000	61.2	66.2	67.3	68.5	69.3	69.5	70.0	70.2	70.2	70.3	70.4	70.4	70.7	70.7	70.9	71.0
≥ 2500	63.7	68.4	69.6	71.0	72.0	72.2	72.9	73.1	73.2	73.3	73.4	73.4	73.6	73.6	73.8	74.0
≥ 2000	64.3	70.7	72.1	73.7	74.9	75.2	75.9	76.2	76.2	76.4	76.5	76.5	76.7	76.8	76.9	77.1
≥ 1800	65.1	71.8	73.4	75.1	76.3	76.6	77.3	77.6	77.7	77.8	77.9	77.9	78.1	78.2	78.3	78.5
≥ 1500	67.3	73.8	75.6	77.4	78.7	79.0	79.9	80.3	80.3	80.5	80.7	80.7	80.9	81.0	81.2	81.3
≥ 1200	68.5	75.5	77.5	79.4	80.9	81.4	82.4	82.9	82.9	83.2	83.4	83.5	83.7	83.7	83.9	84.1
≥ 1000	69.2	76.6	78.9	81.0	82.7	83.3	84.5	85.1	85.1	85.5	85.8	85.9	86.1	86.2	86.3	86.5
≥ 900	69.6	77.4	79.8	82.0	83.8	84.4	85.7	86.4	86.4	86.8	87.2	87.3	87.6	87.6	87.8	88.0
≥ 800	70.1	78.1	80.7	83.0	85.0	85.7	87.0	87.7	87.8	88.4	88.8	88.9	89.2	89.2	89.4	89.6
≥ 700	70.4	78.7	81.4	83.9	85.9	86.6	88.0	88.7	88.8	89.5	89.9	90.0	90.3	90.3	90.5	90.7
≥ 600	70.8	79.5	82.4	85.1	87.3	88.1	89.6	90.4	90.5	91.2	91.6	91.7	92.1	92.1	92.5	92.6
≥ 500	71.0	80.0	83.1	85.9	88.4	89.3	90.9	91.8	91.8	92.6	93.1	93.2	93.5	93.6	94.0	94.2
≥ 400	71.1	80.2	83.5	86.5	89.2	90.3	92.1	93.0	93.0	93.8	94.3	94.4	94.8	94.9	95.3	95.6
≥ 300	71.2	80.4	83.8	87.0	90.1	91.4	93.3	94.4	94.5	95.5	96.1	96.3	96.8	96.9	97.3	97.6
≥ 200	71.2	80.4	83.8	87.1	90.4	91.6	93.7	94.8	94.9	96.1	96.9	97.0	97.7	97.9	98.5	98.8
≥ 100	71.2	80.4	83.8	87.1	90.4	91.6	93.7	94.8	95.0	96.2	97.0	97.3	98.1	98.3	99.4	99.7
≥ 0	71.2	80.4	83.8	87.1	90.4	91.6	93.8	94.9	95.0	96.2	97.1	97.3	98.1	98.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 5952

2
FEDERAL CLIMATOLOGY BRANCH
AFMSTAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14 HECTOR APT FARGO ND

73-81

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	52.0	53.3	53.7	53.9	54.0	54.1	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.4	54.4	54.5
≥ 20000	57.2	58.8	59.2	59.4	59.6	59.7	59.8	59.9	59.9	59.9	59.9	60.0	60.0	60.1	60.1	60.2
≥ 18000	57.5	59.1	59.5	59.8	59.9	60.0	60.1	60.2	60.2	60.3	60.3	60.3	60.3	60.4	60.4	60.5
≥ 16000	57.6	59.2	59.6	59.8	60.0	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.5	60.6
≥ 14000	58.4	60.1	60.5	60.8	60.9	61.0	61.1	61.2	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.5
≥ 12000	60.3	62.0	62.4	62.7	62.9	62.9	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.4
≥ 10000	63.5	65.4	65.8	66.1	66.3	66.4	66.6	66.6	66.6	66.6	66.7	66.8	66.8	66.8	66.9	67.0
≥ 9000	65.0	67.0	67.4	67.7	68.0	68.0	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.5	68.6	68.6
≥ 8000	66.2	68.3	68.8	69.1	69.3	69.4	69.6	69.6	69.6	69.7	69.8	69.8	69.8	69.9	69.9	70.0
≥ 7000	68.3	70.5	70.9	71.3	71.5	71.6	71.8	71.8	71.9	71.9	72.0	72.0	72.1	72.1	72.2	72.2
≥ 6000	69.4	72.2	72.7	73.1	73.3	73.4	73.6	73.7	73.7	73.8	73.9	73.9	73.9	74.0	74.0	74.1
≥ 5000	71.3	73.8	74.4	74.8	75.1	75.2	75.4	75.4	75.5	75.6	75.6	75.6	75.7	75.7	75.8	75.9
≥ 4500	72.1	74.8	75.3	75.8	76.1	76.2	76.4	76.5	76.5	76.6	76.6	76.6	76.7	76.8	76.8	76.9
≥ 4000	73.7	76.5	77.2	77.7	78.0	78.1	78.3	78.4	78.4	78.6	78.6	78.6	78.7	78.7	78.8	78.9
≥ 3500	74.5	77.4	78.1	78.6	78.9	79.1	79.3	79.4	79.4	79.5	79.6	79.6	79.7	79.7	79.8	79.9
≥ 3000	76.3	79.5	80.2	80.8	81.1	81.3	81.6	81.7	81.7	81.8	81.9	81.9	82.0	82.0	82.1	82.1
≥ 2500	78.1	81.6	82.4	83.1	83.5	83.7	84.0	84.1	84.1	84.3	84.3	84.3	84.4	84.5	84.5	84.6
≥ 2000	80.0	83.9	84.8	85.6	86.1	86.3	86.6	86.8	86.8	87.0	87.0	87.0	87.1	87.2	87.2	87.3
≥ 1800	80.7	84.7	85.7	86.5	87.0	87.2	87.6	87.7	87.8	87.9	88.0	88.0	88.1	88.1	88.2	88.3
≥ 1500	81.9	86.2	87.2	88.1	88.7	88.9	89.4	89.6	89.6	89.8	89.9	89.9	90.0	90.0	90.1	90.2
≥ 1200	82.9	87.6	88.7	89.7	90.4	90.7	91.2	91.4	91.5	91.7	91.8	91.9	91.9	91.9	92.0	92.1
≥ 1000	83.6	88.6	89.9	90.9	91.7	92.0	92.6	92.9	93.0	93.2	93.4	93.4	93.5	93.6	93.6	93.7
≥ 900	84.0	89.2	90.4	91.6	92.4	92.7	93.4	93.7	93.8	94.1	94.2	94.3	94.4	94.4	94.5	94.6
≥ 800	84.2	89.5	90.9	92.1	92.9	93.3	94.0	94.3	94.4	94.7	94.9	94.9	95.1	95.1	95.2	95.3
≥ 700	84.4	89.9	91.3	92.5	93.4	93.8	94.6	95.0	95.4	95.6	95.6	95.8	95.8	95.8	95.9	96.0
≥ 600	84.6	90.3	91.7	93.1	94.0	94.5	95.3	95.7	95.7	96.2	96.4	96.4	96.6	96.6	96.7	96.8
≥ 500	84.7	90.5	92.0	93.5	94.5	95.0	95.9	96.3	96.4	96.9	97.1	97.1	97.3	97.4	97.5	97.6
≥ 400	84.7	90.6	92.2	93.7	94.8	95.3	96.3	96.8	96.9	97.4	97.7	97.7	97.9	98.0	98.1	98.2
≥ 300	84.7	90.7	92.3	93.9	95.1	95.7	96.7	97.3	97.4	98.0	98.3	98.3	98.6	98.7	98.8	98.9
≥ 200	84.8	90.7	92.4	94.0	95.2	95.8	96.9	97.5	97.6	98.2	98.6	98.6	99.0	99.1	99.3	99.5
≥ 100	84.8	90.7	92.4	94.0	95.2	95.8	96.9	97.5	97.6	98.3	98.6	98.7	99.1	99.2	99.5	99.8
≥ 0	84.8	90.8	92.4	94.0	95.2	95.8	96.9	97.5	97.6	98.3	98.7	98.7	99.1	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 70115

PART D

SKY COVER

Stations that report both synoptic and airways observations have had their sky cover reports converted into airways. The synoptic hours have significantly lower observation counts than the airways, hence, a small percentage of observations were reported in the 1/10, 4/10, 5/10, 6/10, and 8/10 categories. In order to use this data more beneficially we have combined:

- 1/10 and 4/10 into the 3/10 (scattered) category
- 5/10, 6/10 and 8/10 into the 9/10 (broken) category
- 0/10 is the clear category
- 10/10 is the overcast category

7.

JAN

HECTOP APT FARGO ND
STATION NAME

PERIOD

JAN

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02	33.0			13.2						11.4	42.4	5.7	740
	03-05	33.3			11.6						8.5	46.6	5.8	726
	06-08	27.0			15.1						11.0	47.0	6.1	730
	09-11	16.7			18.8						14.6	49.9	6.9	738
	12-14	17.3			16.5						16.1	50.1	7.0	740
	15-17	15.4			21.8						15.9	46.9	6.8	738
	18-20	24.9			17.9						10.5	46.6	6.1	742
	21-23	32.8			13.4						8.4	45.3	5.7	737
TOTALS		25.1			16.0						12.1	46.9	6.3	5891

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

2

FEB
MONTH

14914 HECTOR APT FARGO ND
STATION STATION NAME

14914 HECTOR APT FARGO ND
STATION STATION NAME

SKY COVER

14214
STATION

SECTOR APT FARGO ND STATION NAME

74-81

MAR
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02	33.1			16.3						10.2	40.5	5.5	744
	03-05	30.4			15.1						10.5	44.1	5.8	744
	06-08	20.9			18.2						14.0	46.9	6.5	742
	09-11	15.4			16.2						18.1	49.3	7.0	742
	12-14	12.0			18.7						19.7	49.6	7.3	742
	15-17	10.7			21.7						16.5	49.1	7.2	741
	18-20	14.1			26.1						17.9	41.9	6.6	744
	21-23	30.2			19.3						10.6	39.9	5.5	742
TOTALS		21.7			19.0						14.9	45.2	6.4	5981

SKY COVER

APR
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	33.5			15.6						11.0	39.8	5.4	716
	03-05	27.0			18.2						13.3	41.5	5.9	715
	06-08	19.7			19.0						14.9	46.4	6.5	720
	09-11	17.3			19.3						12.4	51.0	6.8	716
	12-14	13.5			17.0						18.0	51.5	7.3	718
	15-17	11.9			17.7						19.7	50.7	7.4	716
	18-20	12.1			21.0						19.0	47.9	7.1	720
	21-23	24.6			21.7						15.3	38.5	5.9	720
TOTALS		22.0			18.7						15.5	45.9	6.5	574

CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

14914 HECIOR APT FARGO ND 74-81 MAY
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	32.0			19.1						14.2	34.7	5.3	744
	03-05	25.8			22.3						17.1	34.7	5.7	743
	06-08	17.5			23.8						17.7	41.0	6.4	744
	09-11	15.7			20.8						19.2	44.2	6.8	744
	12-14	10.1			24.5						22.0	43.4	7.1	744
	15-17	7.9			25.2						27.6	39.3	7.2	743
	18-20	8.8			26.7						24.4	40.1	7.0	741
	21-23	12.1			28.6						18.6	33.6	5.9	740
TOTALS		17.1			23.9						20.1	38.9	6.4	5943

GLOBAL CLIMATOLOGY BRANCH
NAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

14914
STATION

MECIOR API FARGO ND
STATION NAME

73-80

PERIOD

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JUN	00-02	30.4			25.6						16.2	27.9	5.0	718
	03-05	19.9			31.0						18.1	31.1	5.7	714
	06-08	16.4			26.3						22.5	34.9	6.3	720
	09-11	14.0			28.8						23.9	33.3	6.3	720
	12-14	6.0			31.9						28.3	33.8	6.9	720
	15-17	6.4			37.2						25.1	31.3	6.5	720
	18-20	12.2			36.7						25.8	25.3	6.0	720
	21-23	20.4			34.2						20.0	25.4	5.4	720
TOTALS		15.7			31.5						22.5	30.4	6.0	5752

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

14914 HECTOR APT FARGO ND
STATION STATION NAME

73-80

PERIOD

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	39.5			25.8						17.3	17.3	4.1	744
	03-05	32.3			27.6						20.6	19.4	4.6	742
	06-08	21.0			31.4						24.3	23.3	5.5	742
	09-11	17.3			33.3						24.7	24.8	5.7	742
	12-14	12.1			38.4						29.8	19.6	5.8	744
	15-17	12.2			41.5						27.7	18.5	5.6	744
	18-20	18.5			42.7						22.6	16.1	4.9	744
	21-23	27.6			36.2						20.7	15.6	4.5	744
TOTALS		22.6			34.6						23.5	19.3	5.1	5946

AUG
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	0-02	38.1			20.7						14.9	26.2	4.6	743
	03-05	32.7			22.3						17.6	27.4	5.0	737
	06-08	18.3			27.6						21.4	32.6	6.0	742
	09-11	14.2			31.2						21.9	28.7	5.8	743
	12-14	10.1			31.6						29.7	28.6	6.5	744
	15-17	1.8			37.9						23.9	27.4	6.0	744
	18-20	16.0			36.7						21.8	25.4	5.6	743
	21-23	27.3			32.3						18.8	21.5	4.8	743
TOTALS		21.4			30.0						21.3	27.2	5.5	5939

27

SKY COVER

SEP
MON:

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02	43.6			18.3						11.7	26.4	4.2	716
	03-05	43.4			17.2						12.3	27.2	4.3	717
	06-08	23.0			24.1						20.9	31.9	5.8	717
	09-11	23.4			26.8						17.0	35.7	5.9	719
	12-14	15.1			28.3						21.9	34.6	6.3	720
	15-17	15.7			31.3						24.2	28.9	6.0	720
	18-20	21.9			32.1						20.3	25.7	5.4	720
	21-23	38.1			22.4						13.4	26.1	4.5	719
TOTALS		27.7			25.1						17.7	29.6	5.3	5748

SKY COVER

14214
STATION

HECTOR API FARGO ND
STATION NAME

73-80

OCT
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	00-02	34.5			16.7						11.5	37.3	5.3	742
	03-05	35.4			16.7						10.2	37.6	5.2	742
	06-08	21.2			24.1						16.7	38.1	6.0	744
	09-11	15.3			24.2						18.8	41.7	6.6	744
	12-14	12.1			22.9						24.8	42.2	7.1	742
	15-17	12.0			22.7						23.7	41.6	7.0	743
	18-20	19.7			24.1						18.0	38.2	6.2	743
	21-23	32.6			17.2						16.0	36.2	5.6	741
TOTALS		22.6			22.8						17.5	39.1	6.1	594

SKY COVER

NOV
M:MM:

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
Nov	0-02	29.7			13.7						12.4	44.2	6.0	715
	03-05	22.4			15.1						10.1	46.4	6.0	714
	06-08	19.8			17.0						15.6	47.5	6.7	716
	09-11	12.8			18.5						16.3	52.4	7.3	718
	12-14	14.3			17.6						21.0	47.1	7.1	720
	15-17	14.7			19.2						19.3	47.5	7.1	723
	18-20	21.3			21.7						12.5	44.4	6.2	718
	21-23	24.7			15.1						9.8	46.4	6.0	714
TOTALS		1.1			17.2						14.6	47.0	6.6	5735

SKY COVER

PERIOD

DEC
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DIC	06-32	24.2			11.5						10.6	51.5	6.5	738
	03-05	25.2			13.8						9.1	51.9	6.4	734
	06-08	20.5			12.7						11.7	55.1	6.9	741
	09-11	13.5			13.5						14.8	58.2	7.6	741
	12-14	12.2			12.9						16.1	58.7	7.7	744
	15-17	11.1			16.4						15.2	57.3	7.6	742
	18-20	21.4			16.8						9.7	52.2	6.6	740
	21-23	26.3			11.1						9.1	53.5	6.5	737
TOTALS		12.6			13.6						12.1	54.8	7.0	5917

CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

SKY COVER

14/14 REGION APT FARGO ND
STATION STATION NAME

73-81

PERIOD

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	25.1			16.0						12.1	46.9	6.3	5891
FEB		19.7			17.8						15.6	46.9	6.6	5394
MAR		21.0			19.0						14.9	45.2	6.4	5941
APR		20.0			16.7						15.5	45.9	6.5	5741
MAY		17.1			23.9						20.1	38.9	6.4	5943
JUN		15.7			31.5						22.5	30.4	6.0	5752
JUL		22.6			34.6						23.5	19.3	5.1	5946
AUG		21.4			30.0						21.3	27.2	5.5	5939
SEP		27.7			25.1						17.7	29.6	5.3	5748
OCT		22.6			22.8						17.5	39.1	6.1	5943
NOV		21.1			17.2						14.6	47.0	6.6	5735
DEC		19.6			13.6						12.1	54.8	7.0	5917
TOTALS		21.1			22.4						17.3	39.3	6.2	69890

USAFETAC

FORM
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH
AFSTAC

DAILY TEMPERATURES

WEATHER SERVICE/MAC

STATION RECTOR APT FARGO ND
STATION NAME

40-64, 66-81 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
22								2.					2
20				.1			.5	1.0	.1				1
18				.4	1.9		4.9	5.8	1.5				1.2
16				.3	2.1	6.7	17.3	17.2	4.7	.2			4.1
14				1.3	7.9	19.9	41.9	36.1	11.5	1.3			10.0
12				3.0	17.9	40.6	70.0	59.4	21.0	4.2			18.0
10			.2	6.5	29.7	61.6	88.2	79.6	35.1	9.2			25.8
8			.3	11.0	45.7	81.1	96.8	91.5	52.7	17.6	.4		33.0
6		.1	1.3	19.9	63.2	92.0	99.6	97.5	69.6	29.4	1.5		39.4
4			2.8	31.1	76.4	98.0	99.8	99.4	84.9	44.5	4.1		40.0
2		.3	5.7	42.9	86.9	99.5	100.0	100.0	93.9	58.7	9.3	.2	49.7
0	.1	1.1	10.8	58.1	93.8	99.8			98.1	72.8	16.0	.4	54.2
-2	.3	2.5	17.5	71.3	97.6	100.0			99.6	83.3	25.4	1.6	58.2
-4	1.6	5.0	29.2	82.8	99.6				100.0	93.5	40.1	6.0	63.2
-6	6.5	14.5	48.8	91.1	99.9					97.7	57.4	14.6	69.2
-8	15.3	28.9	65.1	97.6						99.9	74.7	28.6	75.8
-10	26.5	42.9	76.4	99.2	100.0					100.0	85.3	43.6	81.1
-12	38.8	53.6	86.1	99.8							91.7	56.1	85.5
-14	49.6	65.6	92.7	100.0							96.2	69.2	89.4
-16	59.4	76.5	96.7								96.0	79.1	92.4
-18	69.9	86.7	99.0								99.1	87.0	95.1
-20	82.2	94.1	99.6								99.6	94.1	97.4
-22	91.1	97.7	99.9								100.0	97.9	98.9
-24	95.8	99.2	100.0									99.3	99.5
-26	99.0	100.0										99.9	99.9
-28	99.8											100.0	100.0
-30	100.0												100.0
MEAN	13.0	20.4	33.5	52.8	68.0	77.0	82.8	81.3	70.6	57.6	36.9	20.9	51.3
S D	14.5	13.366	12.865	13.504	11.599	8.559	7.027	8.400	10.916	12.300	12.661	12.980	26.973
TOTAL OBS	123	932	1023	990	1023	960	992	992	960	992	960	992	11339

AL CLIMATOLOGY BRANCH

STAC

WATHER SERVICE/MAC

STATION 1-1- HOGIOR API FARGO ND STATION NAME

43-64, 66-81

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
70							.5	.5					.1
71						1.1	4.1	3.2	.3				.7
72					.6	6.7	19.5	13.3	2.8				3.6
73					4.4	24.3	45.8	36.8	8.3	.3			10.0
74				.4	12.2	46.3	74.8	61.7	17.0	2.0			17.9
75				3.2	24.9	72.3	91.6	84.7	36.1	7.3	.3		26.6
76				6.9	44.5	88.4	98.1	94.3	57.4	15.0	1.0		33.9
77		.1	.8	20.0	64.9	96.7	99.7	99.5	78.6	31.1	2.6		41.1
78		.3	3.9	34.2	81.0	99.7	100.0	99.9	91.1	51.3	6.5	.1	47.3
79	.1	.5	7.4	44.7	85.5	99.9		100.0	94.7	59.9	10.5	.5	50.3
80	.2	2.5	15.2	61.1	93.5	100.0			97.4	73.8	20.0	1.7	55.4
81	1.4	3.3	30.9	81.8	98.1				99.7	89.4	38.3	6.2	62.6
82	5.1	14.2	45.0	92.3	100.0				100.0	96.0	56.6	14.8	68.6
83	9.9	20.9	56.0	96.1						98.7	71.4	26.1	73.2
84	17.7	32.5	67.6	98.5						99.8	81.7	36.8	77.9
85	27.6	42.2	77.6	99.3						100.0	89.0	49.6	82.1
86	31.4	53.8	85.7	99.8							93.6	61.3	86.0
87	49.6	66.0	91.4	99.9							96.9	72.5	89.7
88	61.1	76.2	95.1	100.0							98.6	82.6	92.8
89	73.5	86.4	98.3								99.6	91.1	95.7
90	85.6	93.5	99.3								99.9	96.8	97.9
91	93.5	98.0	99.7								100.0	98.5	99.1
92	98.2	99.7	99.9									99.8	99.8
93	99.9	100.0	100.0									100.0	100.0
94	100.0												100.0
95													
96													
97													
98													
99													
100													
MEAN	-5.6	1.7	15.3	31.8	43.2	53.7	58.6	56.7	46.4	35.2	19.6	3.6	30.1
S.D.	14.77	14.83	13.77	9.23	9.37	7.40	6.51	7.20	8.65	9.14	11.70	13.83	24.18
TOTAL OBS.	1023	932	1023	993	1023	963	992	992	960	992	960	992	11839

TAC

DAILY TEMPERATURES

WEATHER SERVICE/MAC
14 VECTOR ART FARGO ND
STATION STATION NAME

40-64, 66-21

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

46-419

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
7								0.3					0.4
8						0.2	0.9	1.3	0.1				0.2
9					0.2	2.3	8.9	7.5	1.5				1.7
10					2.7	11.1	25.4	24.2	5.1	0.2			6.0
11				0.6	7.5	30.2	59.3	48.5	13.3	1.0			13.4
12			2.3	13.9	54.1	86.2	73.9	24.5	3.5				21.9
13			0.2	6.3	35.6	80.1	97.2	91.0	44.5	9.7			30.3
14			0.4	13.0	55.2	94.0	99.7	98.4	67.3	22.9	0.9		37.0
15		0.1	1.2	24.3	74.7	99.2	99.9	100.0	84.9	38.2	2.4		43.7
16		0.2	4.3	41.1	87.8	99.9	100.0		94.7	57.4	7.1	0.1	40.3
17	0.1	0.8	10.7	60.0	95.8	100.0			99.1	75.5	16.8	0.4	54.9
18	0.5	3.0	23.0	77.8	98.9				99.9	89.3	30.3	2.1	60.4
19	2.6	9.2	38.9	90.7	99.8				100.0	96.4	50.1	9.1	66.4
20	6.7	18.9	54.2	96.1	100.0					99.1	68.2	19.9	71.9
21	15.9	31.2	67.6	93.6						99.9	80.4	34.3	77.3
22	27.1	44.3	78.0	99.2						100.0	88.0	47.5	81.9
23	36.8	54.4	86.9	99.8							93.6	59.3	86.0
24	51.2	66.0	92.6	100.0							97.0	71.7	82.8
25	59.4	76.5	96.7								96.5	80.1	92.6
26	71.4	87.3	98.8								99.3	89.1	95.5
27	84.2	93.9	99.8								99.9	96.1	97.8
28	92.5	98.1	99.9								100.0	98.4	99.1
29	97.6	99.5										99.8	99.7
30	99.7	100.0	100.0									100.0	100.0
31	100.0												100.0
MEAN	4.4	11.1	24.6	42.5	55.8	65.6	71.0	69.3	58.7	46.7	28.6	12.5	40.9
S.D.	13.793	13.784	12.723	11.548	9.521	7.182	6.094	7.037	8.985	9.835	11.591	13.066	25.341
TOTAL OBS.	1023	932	1023	990	1023	960	992	992	960	992	960	992	11535

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14014 HECTOR APT FARGO ND
STATION STATION NAME

48-64, 66-81

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
41	37	33	48	76	92	94	101	100	95	78	54	43	101
42	41*	32	41	85	88	94	98	101	86	79	65	40	101
50	27	34	42	68	87	99	94	95	91	78	68	37	99
51	35	38	43	79	86	85	93	94	85	84	48	42	94
52	41	38	44	90	92	98	95	97	96	72	63	40	98
53	38	41	53	73	86	91	95	98	89	90	73	40	98
54	36	43	49	77	83	92	99	93	86	70	68	40	99
55	35	36	60	82	93	91	97	99	91	86	56	36	99
56	36	34	46	69	83	99	88	95	92	84	62	49	99
57	36	40	60	35	84	86	98	93	83	80	54	45	98
58	49	66	57	80	91	90	93	101	87	83	63	42	101
59	33	38	58	78	97	99	98	100	102	75	45	45	102
60	38	38	48	76	88	89	100	94	99	83	58	38	100
61	39	46	67	72	90	95	95	99	91	89	59	41	99
62	40	40	43	88	87	91	86	97	89	86	59	57	97
63	44	51	77	79	88	96	99	97	88	93	62	43	99
64	46	48	56	81	98	98	96	96	90	80	67	31	98
66	23	37	60	70	87	96	95	91	89	85	47	41	96
67	37	42	78	65	86	89	93	94	88	83	60	52	94
68	39	33	73	85	86	97	95	99	89	80	54	37	99
69	32	35	37	69	95	77	95	95	89	71	61	53	95
70	33	38	42	75	87	95	98	96	93	84	54	41	98
71	32	39	59	80	86	90	87	96	95	70	56	36	96
72	38	36	52	70	91	92	96	95	91	78	54	33	96
73	38	40	60	78	82	92	95	96	77	74	59	35	96
74	32	40	43	78	81	91	99	90	90	83	59	46	99
75	36	35	52	60	82	86	100	90	83	87	70	46	100
76	36	51	58	83	85	95	100	106	99	85	59	44	106
77	30	46	60	85	90	91	97	82	82	72	57	35	97
78	29	32	58	71	86	87	94	96	99	79	73	36	99
MEAN													
S.D.													
TOTAL OBS													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-3 (OLA) # (AT LEAST ONE DAY LESS THAN 24 OBS)

(FROM DAILY OBSERVATIONS)

YEARS

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14 HECTOR APT FARGO ND
STATION STATION NAME

48-64, 66-81
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
43	-34	-27	-34	8	30	42	50	47	40	16	1	-22	-34
49	-25*	-24	-10	20	28	36	47	44	26	17	2	-18	-25
50	-32	-30	-21	10	30	37	42	37	40	21	-9	-28	-32
51	-36	-29	-18	20	30	39	43	44	25	5	-12	-26	-36
52	-32	-13	-22	21	26	40	44	44	33	13	-1	-4	-32
53	-17	-12	-6	9	25	33	47	51	32	24	13	-27	-27
54	-30	-8	-2	1	24	39	43	44	31	20	3	-6	-30
55	-18	-26	-18	26	22	45	52	43	29	13	-12	-27	-27
56	-21	-26	-17	16	28	35	49	42	27	21	-2	-19	-26
57	-27	-19	-3	10	28	39	53	45	28	18	1	-16	-27
58	-16	-23	10	14	20	37	49	44	33	26	-16	-14	-23
59	-20	-24	1	18	27	43	47	50	28	24	-6	5	-24
60	-21	-17	-18	14	26	37	44	40	31	21	-12	-31	-31
61	-27	-12	12	12	20	40	45	42	24	23	4	-21	-27
62	-31	-34	-23	11	32	42	45	49	31	19	9	-14	-34
63	-27	-22	-6	8	21	40	48	46	34	24	2	-28	-26
64	-22	-13	-11	15	31	34	45	33	28	18	-22	-24	-24
66	-33	-31	-18	11	20	35	52	44	29	17	-4	-20	-33
67	-27	-26	-15	13	21	36	36	40	24	16	-5	-32	-32
68	-33	-18	-1	11	30	39	42	35	35	24	9	-28	-33
69	-27	-25	-15	10	24	30	41	45	33	14	2	-10	-27
70	-32	-26	-7	13	26	41	41	42	30	25	-3	-20	-32
71	-30	-26	-2	15	30	45	39	40	27	24	7	-18	-30
72	-33	-27	-18	17	27	38	41	38	32	10	-4	-26	-33
73	-31	-19	18	9	21	39	43	47	26	26	3	-27	-31
74	-28	-33	-11	21	27	41	48	42	23	24	5	-2	-33
75	-14	-20	-11	-7	31	41	47	44	34	26	-1	-18	-20
76	-24	-19	-15	26	21	41	43	46	27	7	-13	-29	-29
77	-35	-19	0	16	30	46	49	42	40	23	-19	-26	-35
78	-24	-21	-16	22	33	37	48	42	38	21	-14	-23	-24
MEAN													
S. D.													
TOTAL OBS													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM
JUL 64

0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

* (AT LEAST ONE DAY LESS THAN 24 OBS)

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMAR

14914 HECTOR APT FARGO ND
STATION STATION NAME

74-81

YEARS

JAN
MONTH

PAGE 1 0000-0200
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Po.												
34 / 33		.3																2	2														
32 / 31	.3	1.1	.1															11	11	7													
30 / 29	.8	1.2	.3															17	17	13													
28 / 27	1.3	.9																17	17	21	1												
26 / 25	.3	2.0	.4															20	20	12	1												
24 / 23	.5	1.5																15	15	22													
22 / 21	2.4	.8																24	24	27	2												
20 / 19	1.9	1.9																28	28	24	2												
18 / 17	2.0	.9																22	22	26	1												
16 / 15	1.1	2.2																24	24	18	3												
14 / 13	2.3	2.3																34	34	33	2												
12 / 11	3.9	1.3																39	39	43	2												
10 / 9	2.0	.7																20	20	24	3												
8 / 7	1.3	1.9																24	24	15	2												
6 / 5	3.1	2.8																44	44	51	1												
4 / 3	.9	4.9																43	43	38	1												
2 / 1	1.1	5.0																45	45	41	2												
0 / -1	3.1	.5																27	27	37	1												
-2 / -3	2.8	.5																25	26	28	3												
-4 / -5	1.8	.1																14	14	14	3												
-6 / -7	3.8																	28	28	29	3												
-8 / -9	4.3																	32	32	32	2												
-10 / -11	4.0																	30	30	30	2												
-12 / -13	1.8																	13	13	13	1												
-14 / -15	6.6																	49	49	49	3												
-16 / -17	1.8																	13	13	13	2												
-18 / -19	4.9																	36	36	36	3												
-20 / -21	2.6																	19	19	19	2												
-22 / -23	1.5																	11	11	11	2												
-24 / -25	.9																	7	7	7	3												
-26 / -27	.9																	7	7	7	1												
-28 / -29																					2												
-30 / -31	.1																	1	1	1	1												
-32 / -33																			2			1											
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature							Total															
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																	
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USCCLTAC
AT: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMAI

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

JAN
MONTH

PAGE 2

0000-02

100 85 5

[illegible]

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

AD-A113 156

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
HECTOR APT, FARGO, NORTH DAKOTA. REVISED UNIFORM SUMMARY OF SUR--ETC(U)
JAN 82

UNCLASSIFIED

USAFETAC/DS-82/001

SBI-AD-E850 137

NL

4

6





GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414 HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
32/ 31		.4																3	3				
30/ 29	.9	1.2																16	16	13	2		
28/ 27	.5	.7																9	9	13	8		
26/ 25	.1	1.9	.3															17	17	6	12		
24/ 23	.8	1.1	.1															15	15	21	5		
22/ 21	2.3	1.2																26	26	29	27		
20/ 19	2.3	1.3																27	27	25	23		
18/ 17	1.9	2.3																31	31	26	20		
16/ 15	1.5	1.2																20	20	25	26		
14/ 13	2.0	2.4																33	33	22	28		
12/ 11	4.2	.9																38	38	52	23		
10/ 9	1.9	1.6																26	26	21	38		
8/ 7	2.0	1.2																31	31	32	30		
6/ 5	2.0	2.3																32	32	36	19		
4/ 3	.9	3.8																35	35	29	27		
2/ 1	.8	4.7																41	41	40	12		
0/ -1	4.7	.7																40	40	45	16		
-2/ -3	3.1	.8																29	29	30	30		
-4/ -5	3.4																	25	25	29	42		
-6/ -7	2.2	.1																17	17	17	23		
-8/ -9	3.8																	28	28	28	26		
-10/ -11	4.2																	31	31	31	22		
-12/ -13	2.3																	17	17	17	27		
-14/ -15	4.3																	32	32	32	21		
-16/ -17	5.0																	37	37	37	15		
-18/ -19	3.1																	23	23	23	35		
-20/ -21	4.2																	31	31	31	28		
-22/ -23	1.8																	13	13	13	22		
-24/ -25	.9																	7	7	7	34		
-26/ -27	1.1																	8	8	8	21		
-28/ -29	.3																	2	2	2	21		
-30/ -31	.1																	1	1	1	21		
-32/ -33																			1		20		
-34/ -35	.1																	1	2	1	6		
Element (X)	Σ x ²		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																							
Wet Bulb																							
Dew Point																							

PSYCHROMETRIC SUMMARY

1-914	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

JAN

PAGE 2

0300-0500

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point													
-37/-37																						8												
-37/-39																						2												
-37/-41																						2												
T T L	69.7	29.9	.4																	744		742												
																			742		742													
Element (X)	Z _X ²	Z _X	X	C _A	No. Obs.	Mean No. of Hours with Temperature						Total																						
Ref. Num.	4177972	54864	73.9	12.794	742	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																						
Dry Bulb	165075	1193	1.6	14.819	744	43.0	93.0					93																						
Wet Bulb	156987	1019	1.4	14.490	742	44.1	93.0					93																						
Dew Point	237207	-3517	-4.7	17.252	742	55.4	93.0					93																						

2

YEARS

74-81

JAN

STATION

STATION NAME

PAGE 1

9600-0800

HOURS 14.5.7.1

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

1014	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

JAN

PAGE 2

0600-0800
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND
STATION STATION NAME

74-81

YEARS

JAN
MONTH

PAGE 1 0900-1100

HOURS (L, S, T, I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
36 / 37			.1															1	1			
36 / 35		.3																2	2			
34 / 33	.1	.1	.3															4	4	4	1	
32 / 31	.1	.9																8	8	4	1	
30 / 29	.4	.3																5	5	11	8	
28 / 27	.5	1.3																14	14	9	7	
26 / 25	.7	1.1																13	13	14	9	
24 / 23	1.5	1.3																21	21	21	11	
22 / 21	1.3	2.0	.1															26	26	25	21	
20 / 19	2.8	2.3																38	38	32	20	
18 / 17	1.3	1.6																22	22	31	24	
16 / 15	1.3	1.7																23	23	17	31	
14 / 13	2.3	1.9																31	31	31	28	
12 / 11	2.7	1.9																34	34	35	15	
10 / 9	1.1	2.4																26	26	24	34	
8 / 7	1.2	3.2																33	33	28	27	
6 / 5	1.5	4.4																44	44	53	13	
4 / 3	2.3	4.0																47	47	49	23	
2 / 1	.7	3.8																33	33	29	34	
0 / -1	2.8	.5																25	25	29	27	
-2 / -3	2.8	.5																25	25	26	40	
-4 / -5	3.0																	22	22	25	35	
-6 / -7	4.8	.1																37	37	36	24	
-8 / -9	3.8																	28	28	29	16	
-10 / -11	4.2																	31	31	31	25	
-12 / -13	2.4																	18	18	18	21	
-14 / -15	4.3																	32	32	32	24	
-16 / -17	3.8																	28	28	28	26	
-18 / -19	3.8																	28	28	28	29	
-20 / -21	2.2																	16	16	16	30	
-22 / -23	1.7																	13	13	13	25	
-24 / -25	1.2																	9	9	9	29	
-26 / -27	.8																	6	6	6	25	
-28 / -29																					19	
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total			
Dry Bulb																						
Wet Bulb																						
Dew Point																						

PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
-1/-31	.1																	1	1	1	11			
-2/-33																					15			
-34/-35																					12			
-36/-37																					3			
-48/-41																					1			
TOTAL	63.6	35.9	.5															744	744	744	744			
Element (X)	Z _X ²	Z _X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	4129774	54688	73.5	12.163	744	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	164065	2023	2.7	14.609	744	39.9	92.1					93												
Wet Bulb	156177	1717	2.3	14.313	744	40.9	92.5					93												
Dew Point	224180	-2882	-3.9	16.932	744	54.6	92.9					93												

74-81

YEARS

JAN
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

10914	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

JAN
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
52 / 51					.1													1	1						
51 / 49				.3														2	2						
41 / 45																					1				
44 / 43																					2				
42 / 41			.3															2	2						
41 / 39			.1															1	1						
3 / 37			.5															4	4	2	1				
3 / 35		.9	.1															8	8	2	2				
34 / 33		.7	.5															9	9	13					
32 / 31	.5	1.7	.1															18	18	8	9				
30 / 29	.5	1.5	.3															17	17	22	11				
28 / 27	.9	1.5	.1															19	19	20	19				
26 / 25	1.1	2.4	.1															27	27	23	14				
24 / 23	.8	2.8	.5															31	31	30	18				
22 / 21	1.5	2.3	.4															31	31	35	18				
20 / 19	1.7	2.4																31	31	32	31				
18 / 17	1.2	3.0	.3															33	33	31	36				
16 / 15	1.6	2.7																32	32	29	32				
14 / 13	.5	3.6																31	31	23	36				
12 / 11	1.2	2.6																28	28	39	20				
10 / 9	1.9	3.4																39	39	34	21				
8 / 7	1.7	3.1																36	36	40	39				
6 / 5		3.9																29	29	33	26				
4 / 3	.3	4.8																38	38	39	28				
2 / 1	.9	4.6																41	41	37	16				
0 / -1	3.6	2.3																44	44	40	21				
-2 / -3	1.2	1.9																23	23	30	37				
-4 / -5	3.9	1.3																39	39	41	41				
-6 / -7	3.5	.1																27	27	34	24				
-8 / -9	3.2																	24	24	25	17				
-10 / -11	4.0																	30	30	30	30				
-12 / -13	1.5																	11	11	11	18				
-14 / -15	3.0																	22	22	22	34				
-16 / -17	1.3																	10	10	10	31				
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total		
Dry Bulb																									
Wet Bulb																									
Dew Point																									

GLOBAL CLIMATOLOGY BRANCH
METAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND

74-81

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1600-2000

MOORE S T

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10914	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

JAN

PAGE 2 1800-2000
 HQ-85 S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point												
-2 / -27	.3																				2	2	2	15										
-2 / -29																								11										
-2 / -31																								5										
-2 / -33																								4										
-3 / -35																								2										
-3 / -37																								1										
-3 / -39																								2										
T T & L	55.4	43.4	1.1	.1																		744		744										
																						744		744										
Element (X)	Σx^2		Σx		\bar{x}		s_x		No. Obs.		Mean No. of Hours with Temperature							Total																
Rel. Hum.	4128669		54629		73.4		12.574		744		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total											
Dry Bulb	179743		4415		5.9		14.375		744		34.1		91.4										9											
Wet Bulb	167894		4020		5.4		14.026		744		36.1		92.0										9											
Dew Point	210264		-606		-.8		16.803		744		47.5		92.6										9											

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

JAN
MONTH

PAGE 2

2100-2300
HOURS W. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point											
- / -29																						13										
- / -31																				1		9										
- / -33																				1		8										
-3 / -35																						3										
- / -37																						6										
T.T.L	63.4	35.3	.9																	744		740										
																			740		740											

GLOBAL CLIMATOLOGY BRANCH
CRAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

JAN

MONTH

PAGE 1

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HOURS: 11:30 A.M. - 1:00 P.M.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
52 / 51					.0													1	1					
51 / 49				.0														2	2					
49 / 45				.0														2	2	1				
48 / 43			.0	.0														2	2	2				
42 / 41			.0															2	2	1				
41 / 39			.1															4	4	3				
39 / 37		.0	.1															8	8	2	1			
38 / 35		.3	.1															24	24	8	3			
37 / 33	.1	.2	.3															34	34	33	9			
32 / 31	.4	.9	.1															67	87	53	38			
30 / 29	.5	1.2	.1															112	112	111	49			
29 / 27	.7	1.2	.1															117	117	122	91			
28 / 25	.5	1.9	.2															152	152	107	102			
27 / 23	1.0	1.9	.2															182	192	206	61			
22 / 21	1.8	2.0	.1															228	228	257	179			
20 / 19	2.0	2.0	.0															238	238	217	209			
19 / 17	1.6	1.8	.0															204	204	215	216			
18 / 15	1.5	2.2	.0															222	222	199	237			
17 / 13	1.8	2.2																240	240	229	207			
16 / 11	3.0	1.5																268	268	298	192			
15 / 9	1.7	2.1																225	225	221	262			
14 / 7	2.0	2.7																280	280	239	218			
13 / 5	1.6	3.4																296	297	342	154			
12 / 3	1.1	4.0																306	306	322	212			
11 / 1	.7	4.5																312	313	268	201			
10 / -1	3.2	1.0																251	251	281	159			
9 / -3	2.9	.9																217	218	251	253			
8 / -5	3.5	.3																227	227	243	269			
7 / -7	3.4	.1																204	204	213	210			
6 / -9	4.0																	237	237	240	186			
5 / -11	4.2																	252	252	252	187			
4 / -13	2.4																	140	140	140	156			
3 / -15	4.0																	239	239	239	218			
2 / -17	3.0																	177	177	177	209			
Element (X)	Σx ²		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Mean No. of Hours with Temperature		Σ			
Rel. Hum.																			≤ 0 F		≤ 32 F			
Dry Bulb																			≥ 67 F		≥ 73 F			
Wet Bulb																			≥ 80 F		≥ 93 F			
Dew Point																					Total			

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LOCAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514 HECTOR APT FARGO ND
STATION STATION NAME

74-81
YEARS

JAN
MONTH

PAGE 2

ALL
HOURS IN S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point					
-1/-19	3.1																	182	182	182	261					
-1/-21	2.0																	116	116	116	215					
-2/-23	1.0																	59	59	59	207					
-2/-25	.8																	45	45	45	209					
-2/-27	.6																	35	35	35	157					
-2/-29	.1																	3	3	3	123					
-2/-31	.1																	5	7	5	90					
-2/-33																			6		84					
-3/-35	.0																	1	2	1	38					
-3/-37																					37					
-3/-39																					4					
-4/-41																					5					
TOTAL	60.1	38.3	1.4	.1	.0													5938	5950	5938	5938					

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

FEB
MONTH

PAGE 2 0000-0200
HOURS L. S. T.

[illegible]

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PSYCHROMETRIC SUMMARY

FEB
MONTH

PAGE 2 0300-0500
HOURS L. S. T.

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
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GLOBAL CLIMATOLOGY BRANCH
 COMETAC
 AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

FEB
MONTH

PAGE 2 1200-1400
HOURS

[illegible]

14714	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

FEB

PAGE 1 1500-1730
MO. RS. S. T.

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GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

FEB
MONTH

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MD-85 5-3

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GLOBAL CLIMATOLOGY BRANCH
METAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14714	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

FEB
MON

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ALL
HOURS

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AL - AL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

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MAR 95 11 51

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1-414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

MAR
MONT

PAGE 1 0900-1100
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GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14614	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

MAR
MONTH

PAGE 1 1200-1400
HOURS L. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAR
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAR
MDNTH

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[illegible]

METEOROLOGICAL CLIMATOLOGY BRANCH
 METEOROLOGICAL SERVICE
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAR
MONTH

PAGE 2 1800-2000
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point					
- / -7	.1																	1	1	1	9					
- / -9																					5					
-1 / -11																					7					
-1 / -13																					5					
-1 / -17																					3					
TOTAL	P.161.1	118.3	5.8	3.5	1.7	.8	.4	.3										743	744	743						

PSYCHROMETRIC SUMMARY

1 14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAD

PAGE 2

ALL

HOURS S. T.

[illegible]

JOINT CLIMATOLOGY BRANCH
JCNFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR
MONTH

PAGE 1 0000-0200
HOURS S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
59 / 69										.1								1	1																
60 / 67									.1									1	1																
66 / 65					.1					.3								3	3																
64 / 63		.4			.3				.1									6	6																
62 / 61					.3			.4										5	5	3	3														
61 / 59			.3		.6			.4										9	9																
57 / 57		.3	.4	.4		1.1		.1										17	17	2	2														
56 / 55	.1	.3	.1	.1	1.1	.1	.1	.3										17	17	9	5														
54 / 53	.1	.4	.1	.7	.3	.7	.6											21	21	7	3														
52 / 51	.1	.3	.3	.7	1.0	.7	.4											25	25	13	9														
50 / 49		1.3	.6	1.1	.4	1.0	.3											33	33	7	5														
48 / 47	.1	1.0	.3	1.1	.8	.1												25	25	39	10														
46 / 45	.6	1.5	.4	1.0	1.1	.4												36	36	28	20														
44 / 43	.1	2.1	.4	1.5	.6	.1												35	35	43	12														
42 / 41	1.3	3.8	2.9	1.0	.8													68	68	42	32														
40 / 39	.7	2.4	1.0	1.0	.4													39	39	66	39														
38 / 37	1.1	2.9	1.7	1.1														49	49	59	46														
36 / 35	1.0	4.9	1.9	2.4														73	73	49	43														
34 / 33	1.8	6.0	3.2	.4														82	82	79	51														
32 / 31	1.9	5.0	1.5	.4														64	64	86	67														
30 / 29	.3	2.4	1.4															29	29	72	60														
28 / 27	.1	3.3	.3	.3														29	29	29	70														
26 / 25	.6	1.8	.4															20	20	38	57														
24 / 23		.4	.1															4	4	15	22														
22 / 21		.3	.1															3	3	7	46														
20 / 19		.6																4	4	2	47														
18 / 17		.1																1	1	4	16														
16 / 15																					6														
14 / 13		.1																1	1		3														
12 / 11	.6																	4	4	5	6														
10 / 9	.1	.3																3	3	2	3														
8 / 7		.1																1	1	2	5														
6 / 5		.1																1	1																
4 / 3		1.0																7	7	7	1														
Element (X)	ΣX ²			ΣX			Σ			Σ _n			No. Obs.			Mean No. of Hours with Temperature																			
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

GLOBAL CLIMATOLOGY BRANCH
GLOBETAC
ATMOSPHERIC WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

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1954

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GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10.14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR

MONTH

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HOURS: 11 A.M. - 5 P.M.

[illegible]

U. S. AL CLIMATOLOGY BRANCH
ASSTAC
AT: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

APR
MONTH

PAGE 2 0300-0500
HOURS, S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 914 HECTOR APT FARGO ND
STATION STATION NAME

74-81

YEARS

APR

MONTH

PAGE 1 0600-0800
HOURS U.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
67 / 65									.3									2	2																
67 / 61						.1												1	1																
67 / 59		.6	.1	.3	.3	.3		.1										12	12	3	1														
67 / 57		.4	.1			.4	.3											9	9	1	2														
57 / 55		.3		.1	.7	.3	.3											12	12	5	7														
54 / 53		.6	.6	.8	.1	.3	.1											18	18	6	3														
52 / 51	.1	1.3	.6	.6	.6	.4												25	25	12	9														
57 / 49	.1	.6	.4	.8	.4	.4												20	20	14	9														
47 / 47		1.0	.6	.8	.1	.1												19	19	26	2														
47 / 45	.1	.7	1.0	1.7	1.3													34	34	20	14														
44 / 43	.6	1.7	1.4	1.7	.8	.1												45	45	27	17														
42 / 41	1.3	2.9	1.7	1.5	.8													59	59	50	30														
47 / 39	1.3	2.8	1.1	1.0	.3													46	46	63	30														
37 / 37	1.1	4.2	2.8	1.5	.1													70	70	58	49														
37 / 35	1.3	4.6	1.9	.8														62	62	62	53														
34 / 33	1.1	4.9	1.8	1.1														64	64	80	49														
32 / 31	1.8	7.4	2.5	.1														85	85	74	78														
37 / 29	1.1	3.1	1.9															44	44	74	83														
27 / 27	.3	3.2	.7															30	30	49	59														
27 / 25	.3	1.5	.1															14	14	36	56														
24 / 23	.6	.6	.1															9	9	15	29														
22 / 21	.3	1.4	.1															13	13	9	37														
19 / 19	.1	.3																3	3	11	40														
17 / 17		.4																3	3	1	23														
17 / 15																				3	11														
14 / 13	.1	.1																2	2	1	6														
17 / 11		.1																1	1	1	2														
16 / 9	.3	.1																3	3	3	5														
7 / 7		.3																2	2	1	1														
7 / 5		.3																2	2	2	3														
4 / 3		.4																3	3	3															
1 / 1	.1	.3																3	3	5															
1 / -1	.4																	3	3	3	1														
-1 / -3																					4														
Element (X)	Σ X ¹			Σ X			X	°X	No. Obs.			Mean No. of Hours with Temperature																							
Rel. Hum.												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																	
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

GENERAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

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YEARS

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MONTH

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0600-0900

0000-0800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	* 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point											
- / -5	.3																	2	2	2	5											
- / -7																					3											
- / -9																					1											
-11/-11																					1											
-11/-13																					1											
TAL	12.6	45.7	19.6	12.9	5.6	2.5	.7	.1	.3										720		720											
																		720		720												

GLOBAL CLIMATOLOGY BRANCH
 MACFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-914	HECTOR APT FARGO ND
STATION	STATION NAME

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H2 85 S 7

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GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14,14	HECTOR APT FARGO ND
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MONTH

PAGE 2 0900-1100
HOURS L. S. T. 1

[illegible]

GLOBAL CLIMATOLOGY BRANCH
 SAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414 HECTOR APT FARGO ND
 STATION STATION NAME

74-81
 YEARS

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 MONTH

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 HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
97																	.1	1	1						
95																	.1	1	1						
93																	.1	1	1						
91																	.1	1	1						
87														.1				1	1						
83														.1				1	1						
81											.1	.1	.1					3	3						
79											.1	.1	.1	.1				4	4						
77								.1	.1	.3	.3	.3	.3					10	10						
75							.1	.1	.1		.1	.1	.3					7	7						
73						.1	.1	.1	.1	.3	.1	1.0						14	14						
71								.3	.3	.3	.6	.3						10	10						
69					.1	.4	.1	.3	.6	.3	.3							15	15						
67			.1					.3	.6		.3							9	9						
65		.1			.1	.3		.8	.1		.4							14	14						
63		.1	.1	.3	.3	.6	.8	.4	.7	1.0								31	31	8	1				
61		.3		.3	.3	.7	.8	.6	.7	.4	.1							30	30	11	2				
59		.1		.4	.3	1.0	.6	1.3	1.0		.1							34	34	14	2				
57		.4	.4	.3	1.1	1.1	1.0	1.4	.6									45	45	9	4				
55		.6	.3	.4	.7	1.8	.6	1.0	.8									44	44	25	9				
53			.4	.4	1.0	.7	1.7	1.0										37	37	32	5				
51		.4	.7	.6	.8	1.4	.1	.1										30	30	40	9				
49		1.0	1.0	1.5	.8	.4	.8	.1										41	41	38	11				
47		1.3	1.4	1.0	1.3	.4	.3											40	40	43	19				
45		1.3	1.3	1.1	1.0	1.3	.3											44	44	80	24				
43	.8	.8	1.3	.7	.7	1.1												39	39	68	35				
41	.6	2.4	1.3	.6	.3	.3												38	38	63	33				
39	.1	1.4	2.5	1.1	.4													40	40	58	52				
37		.8	1.7	.6	.1													23	23	40	56				
35		2.2	1.1	.4														27	27	49	50				
33	.6	1.8	1.3	.1														27	27	46	45				
31	.4	.8	.8	.8														21	21	32	74				
29		1.0	.4															10	10	15	57				
27		.1	.4															4	4	18	46				
Element (X)	ΣX ²			ΣX			X̄			σ _x			No. Obs.			Mean No. of Hours with Temperature						Total			
Rel. Hum.																≤ 0 F ≤ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

GLOBAL CLIMATOLOGY BRANCH
CHAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YFARS

APH

MONIM

PAGE 2 1200-1400

HOURS: 11 A.M. - 5 P.M.

[illegible]

YEARS _____ APR _____
 MONTH _____
 PAGE 1 1500-1700
 HOURS (L. S. T.) _____

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

MONIN

HOURS (L, S, T)

USAFETAC FORM 0-26.3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

14514	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

APR

PAGE 1 1800-2000
HOURS L. S. T.

[illegible]

YEARS

APR
MONTH

PAGE 2 1800-2000

MOJAS S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
 MACFETAC
 AT: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR

MONTH

PAGE 1 2100-2300
HOURS - L. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
FLEETAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR
MON -

PAGE 2 2100-2300
HOURS U.S.T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

APR
MONTH

PAGE 1

ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
67/ 99																		.0	2	2															
68/ 97																		.0	2	2															
69/ 95																		.0	2	2															
70/ 93																	.0	.0	3	3															
71/ 91																	.0	.0	3	3															
72/ 87															.0				2	2															
73/ 85																.0			1	1															
74/ 83											.0	.0	.1	.0		.0			9	9															
75/ 81										.0	.0	.1	.0	.0					10	10															
76/ 79										.1	.1	.1	.1	.1					19	19															
77/ 77									.1	.1	.0	.1	.1	.2	.1				28	28															
78/ 75							.0	.0	.0	.0	.1	.1	.2	.2	.0				27	27															
79/ 73						.0	.0	.0	.0	.1	.1	.2	.1						33	33															
80/ 71						.1	.1	.0	.1	.1	.1	.1	.0						34	34															
81/ 69					.1	.1	.1	.1	.2	.2	.2	.0							51	51															
82/ 67			.0		.0	.1	.1	.1	.3	.1	.1								54	54															
83/ 65		.1	.0	.0	.1	.1	.1	.3	.3	.3	.2								92	92	1														
84/ 63		.1	.1	.1	.2	.2	.3	.2	.4	.3	.1								120	120	25	2													
85/ 61		.2	.1	.2	.2	.3	.5	.3	.5	.1	.0								139	139	46	14													
86/ 59	.0	.2	.1	.2	.4	.5	.3	.6	.5	.1	.0								163	163	52	11													
87/ 57	.0	.4	.2	.3	.3	.7	.7	.5	.3										199	199	54	24													
88/ 55	.0	.3	.1	.4	.7	.8	.6	.5	.2										203	203	107	42													
89/ 53	.0	.5	.5	.6	.6	.6	.9	.3											228	228	145	39													
90/ 51	.1	.6	.9	.5	1.0	1.0	.4	.3											281	281	193	60													
91/ 49	.1	.6	.9	1.2	1.0	.6	.5	.1											282	282	212	61													
92/ 47	.1	1.0	.7	1.1	.7	.6	.1												249	249	314	95													
93/ 45	.3	1.1	1.1	1.5	.9	.6	.1												320	320	386	169													
94/ 43	.6	1.6	1.5	1.2	.7	.5													349	349	428	222													
95/ 41	.7	2.5	2.0	1.1	.7	.2	.0												414	414	466	219													
96/ 39	.7	1.8	2.1	.7	.5	.0													338	338	480	325													
97/ 37	.6	2.4	1.8	1.0	.1	.0													340	340	464	388													
98/ 35	.5	3.2	1.3	.9	.1														345	345	418	416													
99/ 33	1.0	3.3	1.8	.6															385	385	474	428													
100/ 31	1.0	3.8	1.6	.4															389	389	406	664													
Element (X)	Σ x²			Σ x			x̄			s²			No. Obs.			Mean No. of Hours with Temperature																			
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

APR

MONTH

PAGE 2

ALL

MO. 95 S. T. 3

[illegible]

YEARS

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

MAY
MONTH

PAGE 1 0000-0200
HOURS 11 5 11

[illegible]

J. L. AL CLIMATOLOGY BRANCH
 JAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14014	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAY

MONTH

PAGE 2 0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
/ 7																					1		
/ 5																					1		
TOTAL	4.6	26.7	15.2	17.1	13.3	9.8	6.9	4.6	1.6	.3									744	744	744		

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAY
MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

[illegible]

2

9477 43321

74-81

YEARS

MAY 2

MONTH

HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

2

CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND
STATION STATION NAME

74-81
YEARS

MAY
MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
77 / 77						.1												1	1						
76 / 75					.1		.1											2	2						
74 / 72					.3		.1											3	3						
72 / 71			.1	.1	.1	.1		.1										5	5						
70 / 69				.5	.4	.4		.3										12	12						
68 / 67		.1	.3	.7	.5	.1	.1	.1										15	15	3					
66 / 65		.1	.8	1.2	.4	.3	.3	.1	.3									26	26	5	2				
64 / 63		.4	.4	1.2	.5	.4	.3	.4		.3								27	27	12	4				
62 / 61		1.1	.4	1.2	.9	.5	.4	.4										37	37	22	7				
60 / 59	.1	1.7	1.1	1.7	.8	.5	.9	.3										54	54	31	20				
58 / 57		1.7	2.3	.8	1.5	.7	.5	.3										58	58	37	26				
56 / 55		.7	1.2	.9	.9	1.2	.8	.1										44	44	37	31				
54 / 53		1.7	2.3	1.3	.7	1.6												57	57	39	27				
52 / 51	.1	1.3	1.5	.4	1.6	.9	.7	.1										50	50	48	38				
50 / 49	.4	2.0	2.0	1.7	.5	.9	.4											60	60	56	36				
48 / 47	.3	2.6	1.1	1.2	.8	.4												47	47	64	47				
46 / 45	.7	1.7	1.1	1.7	.5	.3	.1											46	46	68	45				
44 / 43	.3	2.7	1.3	1.1	.8	.3												48	48	57	51				
42 / 41	.7	1.9	1.2	1.1	.5													40	40	63	42				
40 / 39	.1	1.6	1.3		.3	.1												26	26	48	44				
38 / 37	.1	1.1	.1	.7	.3													17	17	44	43				
36 / 35		2.0	1.3	.3														27	27	27	41				
34 / 33	.5	.7	.8	.4														18	18	31	53				
32 / 31	.4	.7	.4															11	11	21	58				
30 / 29		.3	.8															8	8	14	31				
28 / 27		.3																2	2	7	24				
26 / 25																				7	27				
24 / 23			.1															1	1		9				
22 / 21		.1	.1															2	2		13				
20 / 19																				3	14				
18 / 17																					3				
16 / 15																					4				
14 / 13																					2				
12 / 11																					1				
Element (X)	Σ x ²		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Mean No. of Hours with Temperature						
Rel. Hum.																			≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

YEARS

MAY
MONTH

PAGE 2

0600-0800
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
SCAFETAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

147.14	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAY
MONTH

PAGE 1 0900-1100
HOURS 0900-1100

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMAR

14014	HECTOR APT FARGO ND
STATION	STATION NAME

74-81

YEARS

MAY
MAY 1954

PAGE 2 1500-170

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL				TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Po																	
24 / 23																																							
22 / 21																																							
2 / 19																																							
1- / 17																																							
1 / 15																																							
14 / 13																																							
1 / 11																																							
1 / 9																																							
TOTAL	.8	3.9	5.9	5.7	8.7	7.0	10.4	12.9	12.5	10.5	6.6	5.9	2.4	4.2	1.3	.8	.4				743		74																
																		743			743																		

GLOBAL CLIMATOLOGY BRANCH
ISAFETAC
AT: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUN
MONTH

PAGE 1 1200-1400
HOURS S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
96 / 95												.1						1	1																
94 / 93											.1							1	1																
92 / 91										.1	.3			.3				5	5																
90 / 89									.4	.1	.3	.1	.3	.1				10	10																
88 / 87									.6	.4	.7	.4	.3					17	17																
86 / 85				.1			.1	.8	1.0	1.3	1.3	.3		.1				36	36																
84 / 83				.3	.3		.4	.1	1.3	1.9	1.3	.6	.3					46	46																
82 / 81			.1	.1	.4	.6	1.0	1.0	.8	1.1	1.3	.1	.1					48	48																
80 / 79				.1	.1	1.0	.6	1.1	1.5	1.8	1.1	.1	.1					55	55	2															
78 / 77			.1	.3	.6	1.0	1.1	1.7	1.1	1.3	.7							56	56	3	2														
76 / 75			.1	.3	.8	1.0	1.5	1.7	2.2	1.4	.6							69	69	3	1														
74 / 73				.3		1.4	1.8	1.7	1.5	.6	.4							55	55	17	4														
72 / 71			.3	.7	.7	1.5	2.5	1.3	.7	.3								57	57	25	4														
70 / 69		.6	1.0	.7	.6	2.5	1.7	1.5	.4	.1								65	65	41	6														
68 / 67	.1	.3	.7	.4	1.3	2.1	1.5	.7	.4									54	54	63	11														
66 / 65		.6	.8	1.0	.8	.4	1.0	.7	.1									39	39	74	40														
64 / 63		.6	1.0	.7	.4	1.7	1.0	.4										41	41	83	30														
62 / 61	.1	.4	.6	1.4	.4	.8	.3											29	29	100	31														
60 / 59		.6	.6	.7	.1	.3	.3											18	18	97	55														
58 / 57		.7	.1	.4														9	9	84	64														
56 / 55		.1																1	1	51	65														
54 / 53			.1	.3														3	3	42	74														
52 / 51			.7															5	5	21	78														
50 / 49																				7	66														
48 / 47																				7	41														
46 / 45																					55														
44 / 43																					36														
42 / 41																					24														
40 / 39																					16														
38 / 37																					11														
36 / 35																					6														
TOTAL	.3	3.8	6.3	7.8	6.5	14.2	14.7	12.6	12.1	10.4	7.9	1.8	1.4	.3					720		720														
																		720			720														
Element (X)	Σx ³			Σx ²			Σx		Σx		No. Obs.		Mean No. of Hours with Temperature																						
Rel. Num.	2112951			37109			51.5		16.693		720		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total										
Dry Bulb	3962051			53087			73.7		8.157		720						71.9		49.9		24.4		.3		90										
Wet Bulb	2772110			44486			61.8		5.716		720						19.3		3.1		.1				90										
Dew Point	2100148			38482			53.4		7.769		720						3.5		.9						90										

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUN
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

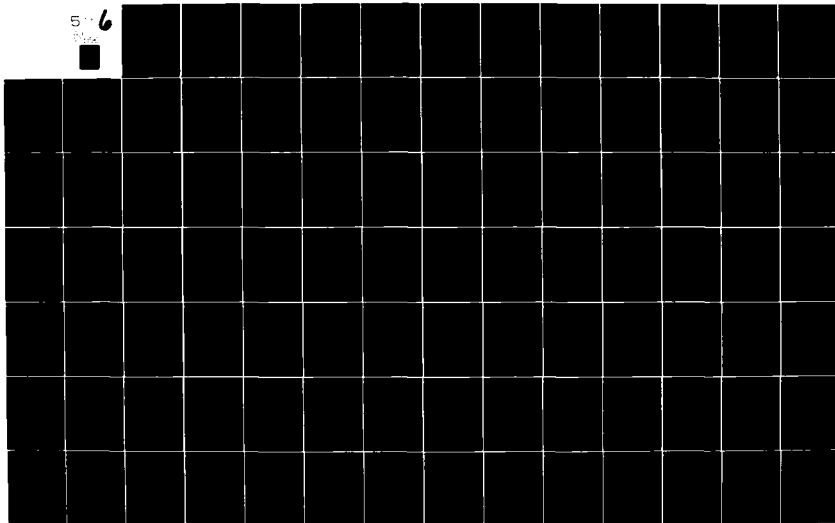
AD-A113 156 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
HECTOR APT, FARGO, NORTH DAKOTA. REVISED UNIFORM SUMMARY OF SUR--ETC(U)
JAN 82

UNCLASSIFIED USAFETAC/DS-82/001

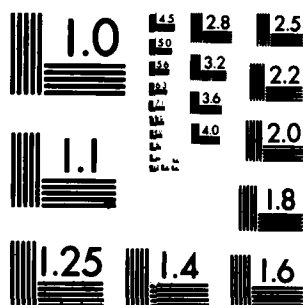
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13156



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
JSCFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUN
MONTH

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

JUL
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A; PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

YEARS

HOURS 16.5. T.1

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
SAFE/AC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUL

MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

2

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
4TH WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

JUL
MONTH

PAGE 1 1800-2000
HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL											
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Po.												
102/104																	.1	1	1															
100/99																	.1	1	1															
98/97											.1			.1				2	2															
96/95										.1								1	1															
94/93									.3		.4	.1	.3					8	8															
92/91								.1	.7	.1	.3		.1	.4				13	13															
90/89							.4	.9	.8	.4	.4	.1	.1					24	24															
88/87				.3	.1	.5	1.1	1.7	.7	.3	.4	.4	.1	.3				44	44															
86/85			.1	.1	.1	1.1	1.6	.8	.5	1.1	.4	.5	.1					49	49															
84/83			.3		.7	1.2	1.5	1.5	1.1	1.3	.8	.5	.4	.1				70	70															
82/81			.1	.3	1.3	1.1	1.1	1.2	2.3	.5	.9	.4	.3					71	71	3														
80/79			.4	.4	.9	1.2	1.3	2.6	2.2	1.6	.7							84	84	8														
78/77				.4	.9	1.5	2.2	1.2	1.9	1.2	.3							71	71	15														
76/75			.1	.9	1.1	1.1	1.6	2.7	1.5	.5	.1							72	72	47														
74/73			.7	.9	.4	1.7	2.0	1.5	1.3	.4								67	67	56	16													
72/71			.4	.7	.5	1.2	.9	1.1	.3									38	38	43	2													
70/69		.4	.7	.4	.7	1.9	1.5	.1	.1									43	43	63	5													
68/67		.3	1.5	.5	1.3	1.2	1.1	.4										47	47	81	4													
66/65		.8	.7	.4	.4	.5	.1											22	22	105	5													
64/63	.4	.3	.3		.4	.3												12	12	91	5													
62/61		.1			.1													2	2	99	4													
60/59		.1																1	1	65	5													
58/57			.1															1	1	43	6													
56/55																				20	7													
54/53																				5	5													
52/51																						4												
50/49																						5												
48/47																						4												
46/45																						1												
44/43																						1												
42/41																																		
40/39																																		
38/37																																		
Element (X)	Σ X ²			Σ X			X̄			σ _X			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.																≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F													
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

YEARS

PAGE 2 JUL MONTH 1800-2000 HOURS U. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUL

MONTH

PAGE 1

2100-2300

HOURS: 11:55 - 12:01

NOV 12 3 1961

[illegible]

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

JUL
MONTH

PAGE 1

ALL

NO. 105 S. T.

[illegible]

PSYCHROMETRIC SUMMARY

14/14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

JUL

MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ALL WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14614	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

AUG
MONTH

PAGE 1 0000-0200
HOURS S. T. J.

[illegible]

2
FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14014 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

AUG
MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
86 / 85									.1									1	1		
84 / 83									.3									2	2		
82 / 79									.1									1	1		
80 / 77			.1	.1		.3		.1										5	5		
78 / 75			.4	.5	.3	.3		.4										14	14		
76 / 73		.1	1.2	.5	.3	.3												18	18	3	1
74 / 71		.1	.9	.1	.3	.1	.1											13	13	4	2
72 / 69	.1	1.2	1.3	.4	.3	.4	.7											33	33	20	9
70 / 67	.3	.3	2.7	1.3	.7	.4	.1											43	43	29	21
68 / 65	.4	2.6	3.1	1.3	.8		.4											64	64	27	18
66 / 63	.3	3.0	4.8	1.3	.4	.3												75	75	54	37
64 / 61	.4	3.6	2.8	.7	1.5	.3												69	69	60	43
62 / 59	.5	5.0	3.1	.9	.8													77	77	94	57
60 / 57	.5	4.7	2.6	1.3	.4													71	71	82	90
58 / 55	.1	3.8	4.0	1.1	.9													74	74	67	79
56 / 53	.3	3.2	1.7	1.3	.7													54	54	76	62
54 / 51		1.7	2.6	.5														36	36	64	49
52 / 49		1.7	2.0															28	28	36	75
50 / 47		3.0	.5															26	26	56	52
48 / 45	.4	2.8	.4															27	27	43	56
46 / 43	.1	1.1	.1															10	10	20	42
44 / 41		.4																3	3	7	29
42 / 39																				2	12
40 / 37																					10
TOTAL	3.5	38.3	34.5	11.7	7.3	2.3	1.3	.5	.5									744	744	744	744
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.	4975786		60222		80.9		11.671		744		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb	2688719		44363		59.6		7.648		744				16.3	5.1	.4		93				
Wet Bulb	2380676		41772		56.1		6.901		744				7.0	.4			93				
Dew Point	2171571		39815		53.5		7.418		744				4.1	.1			93				

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

<u>14914</u>	<u>HECTOR APT FARGO ND</u>
STATION	STATION NAME

73-80

YEARS

AUG
MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

[illegible]

YEARS

PAGE 1 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

MONTH

HOURS (L, S, T)

[illegible]

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

AUG
MONTH

PAGE 1 1500-1700

1500-1700
HOURS L. S. T.

[illegible]

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-914	HECTOR APT FARGO ND
STATION	STATION NAME

73-8C

YEARS

AUG

MONTH

PAGE 1 1800-2000
NO. 85 JUL 5 1951

1800-2000
NO. 85 S. T.

[illegible]

U.S. CLIMATOLOGY BRANCH
 100 FTAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

AUG
MONTH

PAGE 2

1800-2000

HOURS : (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AT: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

AUG

PAGE 1 2100-2300
HOURS S. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
4 / 93													.1					1	1																
5 / 91												.3						2	2																
6 / 89											.3							2	2																
8 / 87									.1		.1	.1						3	3																
10 / 85						.1	.1	.1		.5								7	7																
14 / 83						.1	.3	.3	.3	.4	.3							12	12																
17 / 81					.1	.5	.3	.1	.1	.3	.1							12	12																
17 / 79				.4	.4	.3	.1	.4	.1	.1								14	14																
21 / 77				.4	.9		.7	.5		.1								20	20																
26 / 75		.1	.3	.5	.5	.5	.4		.1	.1								20	20	1															
26 / 73		.3	.5	1.1	.9	.9	.1	.8	.5									39	39	17	1														
27 / 71		.3	.8	2.4	.8	1.6	.3	.1	.1		.1							49	49	16	7														
27 / 69		.5	2.3	1.9	3.6	.5	.9	.7	.3									80	80	31	12														
60 / 67	.4	1.1	2.7	2.2	2.3	.9	.5	.7										80	80	28	23														
16 / 65	.4	.9	3.2	3.2	1.2	1.1	.8	.1										82	82	29															
14 / 63		1.7	2.8	2.8	1.3	1.1	.1	.1										75	75	24	51														
12 / 61	.1	2.3	2.0	1.9	1.6	.7	.1											65	65	24	46														
60 / 59	.3	.7	2.0	1.2	1.9	.4												48	48	91	70														
50 / 57		.5	2.8	2.0	.7	.5												49	49	71	101														
50 / 55		.7	1.5	.9	1.1	.3												33	33	68	65														
14 / 53		1.2	.9	1.7	.1	.1												31	31	63	49														
12 / 51		.9	.4	.1														11	11	46	59														
50 / 49		.1	.3															3	3	30	64														
40 / 47		.3		.1														3	3	26	43														
40 / 45		.1	.1															2	2	5	40														
44 / 43		.1																1	1	1	36														
62 / 41																				3	21														
40 / 39																					6														
30 / 37																					7														
20 / 35																					4														
10 / 27																					1														
TOTAL	1.2	12.0	22.7	23.0	17.6	9.8	4.8	4.0	1.7	1.6	.9	.4	.1					744	744		744														
																		744		744															
Element (X)	Σx²			Σx		X		σx		No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.	3722197			51419		69.1		15.062		744		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total											
Dry Bulb	3292538			49140		66.0		7.947		744						42.6		16.5		6.1		.1		93											
Wet Bulb	2673739			44343		59.6		6.445		744						12.9		2.3						93											
Dew Point	2291377			40895		55.0		7.654		744						.1		5.4		.1				93											

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

AUG

MONTH

PAGE 1

ALL

NOV 15 1951

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

 AUG
MONTH

PAGE 2

ALL
HOURS 4, 5, 7.

[illegible]

U.S. AIR FORCE
AL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

SEP

40414

PAGE 1

0600-0200
HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
79 / 79					.1	.1			.1									3	3																
78 / 77						.1	.3		.3	.1								6	6																
77 / 75					.3	.3		.1	.1	.1								11	11																
76 / 73			.1	.1		.3		.1										5	5																
75 / 71			.1	.1	.3			.3										6	6	1															
74 / 69	.1	.4	.4	.4	.4	.3		.7										20	20	9	3														
73 / 67			.3	.4	.1		.3											8	8	7	7														
72 / 65		1.1	.7		.7	.1		.1										20	20	15															
71 / 63		.4	1.1	.1	.4	.3	.4		.1									21	21	14	17														
70 / 61		1.4	.8	.8	.8	.3												30	30	15	8														
69 / 59		1.5	1.4	.6	1.5	.8		.1										43	43	26	17														
68 / 57	.1	1.4	1.3	.7	1.4	.1	.1											37	37	32	25														
67 / 55	.4	3.3	1.8	1.8	1.1	1.0	.1											69	69	37	29														
66 / 53		1.4	2.9	2.1	.6	.1	.1											52	52	49	28														
65 / 51	.1	4.2	4.3	.7	.3	.6												73	73	55	32														
64 / 49	.1	3.1	2.6	1.9	.8	.1												63	63	82	44														
63 / 47	.1	3.8	2.1	1.4	.3	.4												58	58	76	70														
62 / 45		3.1	3.3	.4	.1													50	50	60	81														
61 / 43	.4	2.1	2.5	.4	.4	.1												43	43	63	59														
60 / 41	.1	2.6	1.4	.3	.3													34	34	60	54														
59 / 39	.1	1.3	1.4	.6	.4													27	27	33	47														
58 / 37	.1	.4	.7	.6														13	13	27	58														
57 / 35	.1	1.0	.3	.4														13	13	18	36														
56 / 33	.1	.4	.3															6	6	20	27														
55 / 31	.1	.1	.4															5	5	8	21														
54 / 29		.3	.1															3	3	7	18														
53 / 27		.1																1	1	4	9														
52 / 25																				2	4														
51 / 23																					9														
50 / 21																					14														
49 / 19																					3														
TOTAL	2.4	33.3	30.4	14.4	10.4	5.1	1.4	1.5	.7	.3									720	720		720													
Element (X)	Σx²		Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.	4193695		53909		74.9		14.793		720		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb	2342883		37731		52.4		9.553		720			1.1	7.4	3.1						90															
Wet Bulb	1728950		34742		48.3		8.549		720			2.6	2.1							90															
Dew Point	1469866		31782		44.1		9.650		720			9.8	1.3							90															

GLOBAL CLIMATOLOGY BRANCH
NAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

SEP

PAGE 1 0300-0500
M2 B5 S T 1

HOURS: 8.30 - 5.00

[illegible]

GLOBAL CLIMATOLOGY BRANCH
CPC/ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

SEP

PAGE 1

0600-0800

HOURS in S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
91 / 79						.1				.1								1	1					
80 / 75				.1		.1			.1									2	2					
74 / 73			.1	.7		.1												7	7					
72 / 71		.3	.1	.4	.3													8	8					
71 / 69		.1	.6	.3	.6													11	11	7	3			
67 / 67			.3	.4	.4		.1											9	9	6	2			
66 / 65	.4	.3		.8		.3		.1										17	17	12	8			
64 / 63		.7	.4	.6	.6		.3											18	18	10	11			
62 / 61		1.0	.6	.4	.1	.3												17	17	16	7			
59 / 59		1.3	1.3	.4	.6													25	25	18	12			
58 / 57		2.5	2.5	.6	1.0													47	47	26	19			
57 / 55	.1	3.2	1.9	1.0	.6	.1												50	50	37	31			
54 / 53	.7	2.8	3.1	1.5	.4													61	61	51	35			
52 / 51	.8	3.1	2.8	1.8	.7	.1												67	67	56	48			
51 / 49	.3	4.4	2.2	1.9	.1													65	65	67	48			
47 / 47	.3	5.0	2.1	.8	.3	.4												64	64	58	53			
46 / 45	.1	4.6	2.4	.8	.4													60	60	82	56			
44 / 43	.4	3.6	2.6	.1	.1													50	50	59	73			
42 / 41	.6	2.8	1.9	.1	.3													41	41	56	56			
40 / 39	.3	1.3	.7	.3														18	18	50	57			
39 / 37	.1	2.2	.7	.3														24	24	24	48			
36 / 35	.3	2.4	.3															21	21	27	48			
34 / 33		1.0	1.1															15	15	24	32			
32 / 31		.4	.4															6	6	10	17			
30 / 29		.8																6	6	10	12			
29 / 27	.1	.6	.3															7	7	8	15			
27 / 25		.1																1	1	5	13			
24 / 23																				1	5			
22 / 21																					6			
20 / 19																					4			
19 / 17																					1			
TOTAL	4.6	44.3	28.8	13.5	6.4	1.5	.4	.1	.1	.3								720	720	720	720			
Element (X)	Σx ²		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature													
Rel. Num.	4702204		57500		79.912.380		720		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F		Total			
Dry Bulb	1877627		36127		50.2		9.501		720				2.5		5.0		1.5		.1		90			
Wet Bulb	1646454		33854		47.0		8.719		720						4.3		1.6				90			
Dew Point	1451089		31603		43.9		9.430		720						9.1		.6				90			

YEARS

10-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

SEP
MONTH

PAGE 1 0900-1100
HOURS L. S. T.

[illegible]

2

2

SEP

YEARS

MONTH

HOURS		S		T	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

YEARS

SEP
MONTH

PAGE 1 1500-1700
HOURS: 1500-1700

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

2

SEP

YEARS

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
CGFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

SEP
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

SEP
MONTH

PAGE 2 1800-2000
HOURS: 1800-2000

[illegible]

JOINT CLIMATE SERVICE BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

SEP
14 1974

PAGE 2 2100-2300
MOVS 11.5.71

[illegible]

GLOBAL CLIMATOLOGY BRANCH
NAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

SEP
MON

PAGE 1

ALL

MOUSE S. T.

[illegible]

CLIMATOL CLIMATOLOGY BRANCH
 METAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414 HECTOR APT FARGO ND
STATION STATION NAME

73-80

SEP
MONTH

PAGE 2

ALL
HOURS

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514 HECTOR APT FARGO ND

73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0000-0200

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
67 / 67									.1									1	1																
66 / 65	.1	.1				.1	.1	.1	.1									6	6	1	1														
64 / 63	.1	.4	.1	.4	.1			.4	.1									13	13	2	2														
62 / 61		.3				.1		.1										5	5	3	2														
60 / 59			.1	.3	.1	.1		.1										6	6	3	2														
58 / 57		.5		.3	.9	.1												14	14	6	3														
56 / 55	.3	.7		.4	.4	1.3												23	23	8	6														
54 / 53	.1	.7	.3	2.2	.7	.3	.1											32	32	10	8														
52 / 51	.5	1.1	.8	1.1	1.1	.1	.3											37	37	18	11														
50 / 49	.5	.3	.8	1.2	1.6		.1											34	34	31	14														
48 / 47	.3	1.5	1.1	1.5	.7	.7												42	42	32	6														
46 / 45	.1	1.1	2.2	1.6	.4													40	40	44	10														
44 / 43	.1	2.7	2.6	2.2	.9	.3												65	65	42	33														
42 / 41	.4	3.4	3.8	1.7	.3													71	71	64	44														
40 / 39	.8	3.5	3.6	1.6	.4													74	74	83	41														
38 / 37	.1	3.2	2.7	.3														47	47	65	56														
36 / 35	.3	3.5	3.0	.4														53	53	71	72														
34 / 33	1.3	3.5	3.0	.3														60	60	75	74														
32 / 31	1.1	2.8	.8	.3														37	37	60	79														
30 / 29	.5	2.2	.3															22	22	42	60														
28 / 27		1.1	1.3															18	18	22	67														
26 / 25	.1	1.1	.4															12	12	15	35														
24 / 23		1.3	.1															11	11	19	32														
22 / 21	.3	.7	.3															9	9	11	18														
20 / 19	.1	.3	.1															4	4	7	21														
18 / 17																				1	14														
16 / 15		.4																3	3	1	13														
14 / 13		.5																4	4	5	5														
12 / 11		.1																1	1	2	4														
10 / 9																				1	2														
8 / 7																					3														
6 / 5																					3														
4 / 3																					2														
2 / 1																					1														
Element (X)	ΣX ²			ΣX			X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature																						
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F			Total														
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

JOURNAL CLIMATOLOGY BRANCH
 METAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

OCT
MONTH

PAGE 2 0000-0200
HOURS: 11.5. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

OCT
MONTH

PAGE 1 0300-0500
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
64 / 63	.3					.3	.1	.3										7	7	2	2			
62 / 61	.1	.7	.3	.1		.1	.3											12	12	1	1			
60 / 59			.1		.1	.3												4	4	6	4			
58 / 57		.1	.3	.4	.4													9	9	3	2			
56 / 55	.1	.5		.7	.3	.5												16	16	6	2			
54 / 53	.1	.7	.1	1.6	.4	.4												25	25	8	8			
52 / 51	.9	.3	.4	.8		.1												19	19	18	9			
50 / 49	.4		1.2	.7	1.2	.4	.1											30	30	18	11			
48 / 47	.8	.1	1.1	1.2	.1	.4												28	28	24	9			
46 / 45	.3	1.6	2.3	1.5	.4	.3												47	47	27	8			
44 / 43		2.2	2.8	1.2	.1													47	47	34	15			
42 / 41	.7	4.2	3.4	1.7	.4													77	77	61	43			
40 / 39	1.1	4.4	4.0	.8	.1													78	78	86	44			
38 / 37	.3	3.5	3.0	.9														57	57	74	58			
36 / 35	.8	4.4	2.0	.1														55	55	65	71			
34 / 33	.8	4.6	1.7	.4		.1												57	57	81	60			
32 / 31	1.6	5.5	1.9															67	67	64	84			
30 / 29	.7	2.7	.7	.1														31	31	55	64			
28 / 27	.1	2.0	.1															17	17	30	53			
26 / 25		1.1	.7															13	13	20	52			
24 / 23		1.1	.1															9	9	15	28			
22 / 21	.4	1.2																12	12	15	18			
20 / 19	.5	1.5																15	15	13	20			
18 / 17		.3																2	2	6	16			
16 / 15		.8																6	6	2	17			
14 / 13		.1																1	1	6	9			
12 / 11		.4																3	3	1	1			
10 / 9																				3	5			
8 / 7																					3			
6 / 5																					3			
4 / 3																					4			
TOTAL	10.1	44.0	26.2	12.4	3.6	3.0	.5	.3										744	744	744	744			
																		744		744				
Element (X)	Σ X ²		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	4550997		57277		77.0		13.801		744		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	1211981		29165		39.2		9.616		744			22.0					93							
Wet Bulb	1038292		27036		36.3		8.669		744			28.8					93							
Dew Point	834735		23921		32.2		9.398		744			47.1					93							

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NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

OCT
MONTH

PAGE 1 0600-0800
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
47 / 63		.1			.3	.4	.1											7	7		
42 / 61	.1	.3																3	3	2	1
47 / 59	.1	.1	.1			.3	.1											6	6	3	4
47 / 57				.1														1	1	1	
51 / 55	.1	.8	.1	.3		.8												16	16	7	2
47 / 53	.1	.3	.4	1.5	.3	.1												20	20	7	7
42 / 51	1.3	.5	.8	.5	.8	.1												31	31	16	12
47 / 49	.4	.1	1.7	1.2		.3												28	28	19	9
47 / 47		.8	.7	.7	.3													18	18	19	6
47 / 45	.7	1.1	1.2	1.5	.3													35	35	36	16
44 / 43		2.6	3.6	.7	.1													52	52	28	22
42 / 41		4.2	5.5	1.1	.3													82	82	44	29
47 / 39	1.9	3.8	4.3	.5														78	78	88	32
37 / 37	.7	4.3	2.8	.7														63	63	87	62
36 / 35	.5	3.9	2.8															54	54	66	80
34 / 33	1.2	4.7	2.0	.3														61	61	71	73
42 / 31	1.7	4.7	1.2	.3														59	59	68	90
47 / 29	1.3	3.5	.7	.4														44	44	61	75
47 / 27	.3	2.2	.1															19	19	36	50
47 / 25	.1	1.6	.4															16	16	19	50
44 / 23	.4	.3																5	5	16	24
42 / 21	.4	2.3	.4															23	23	18	22
47 / 19	.8	.8																12	12	18	19
47 / 17	.1																	1	1	4	24
47 / 15		.5																4	4	1	11
47 / 13		.1																1	1	3	6
47 / 11		.4																3	3	3	7
47 / 9		.1																1	1	1	4
47 / 7		.1																1	1	2	2
47 / 5																					3
47 / 3																					2
TOTAL	12.5	44.2	29.0	9.7	2.3	2.0	.3											744	744	744	
																		744		744	
Element (X)	Σx ²		Σx		Σ	Σ	No. Obs.		Mean No. of Hours with Temperature										Total		
Rel. Hum.	4726905		58545		78.7	12.7	744		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						93	
Dry Bulb	1160290		28556		38.4	9.300	744			23.6										93	
Wet Bulb	1007497		26649		35.8	8.443	744			31.3										93	
Dew Point	822779		23807		32.0	9.060	744			48.6										93	

GLOBAL CLIMATOLOGY BRANCH
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AF WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

OCT
MONTH

PAGE 1 0900-1100
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point															
74 / 73									.1									1			1																
72 / 71								.3	.1									3			3																
70 / 69							.4	.4										6			6																
68 / 67							.3	.3	.3									6			6																
66 / 65		.1			.1	.1	.7	.1	.1									10			10																
64 / 63	.1	.1		.1	.4	.4	.4	.4	.1									16			16	2	2														
62 / 61			.3	.1	.3	.4	.9	.3										17			17	1	1														
60 / 59		.3	.1	.1	.4	1.9	.5	.1										26			26	2															
58 / 57		.8		.4	.8	1.1	.7	.1										29			29	13															
56 / 55	.3	.4	.4	1.5	1.7	1.3	.1											43			43	18	9														
54 / 53	.8	.1	.7	.9	2.2	.9												42			42	27	13														
52 / 51	.5	.3	1.1	1.1	1.5	.4	.3											38			38	30	7														
50 / 49		.3	2.0	1.5	1.7	.3												43			43	46	9														
48 / 47		.8	1.6	3.1	1.7	.1												55			55	50	17														
46 / 45	.4	.9	2.3	3.9	1.1	.1												65			65	62	36														
44 / 43		1.3	2.6	2.7	.3	.1												52			52	57	38														
42 / 41	.1	1.7	4.6	2.7														68			68	69	35														
40 / 39	.7	2.6	2.7	1.3	.4													57			57	80	61														
38 / 37	.3	2.3	3.4	.8	.3													52			52	87	78														
36 / 35	.1	1.9	1.5	.5	.1													31			31	51	78														
34 / 33	.4	1.5	1.3	.7														29			29	49	72														
32 / 31	.3	1.2	1.9															25			25	36	97														
30 / 29		.4	.8															9			9	24	52														
28 / 27	.1	.5	.4															8			8	14	35														
26 / 25	.3	.1	.5															7			7	14	34														
24 / 23			.4															3			3	4	15														
22 / 21		.1																1			1	3	23														
20 / 19		.1																1			1	4	11														
18 / 17		.1																1			1	1	1														
16 / 15																							6														
14 / 13																							9														
12 / 11																							5														
TOTAL	4.4	18.1	28.5	21.5	13.0	7.3	4.3	2.0	.8									744			744	744	744														
Element (X)	Σx²			Σx		X		σ _x		No. Obs.		Mean No. of Hours with Temperature																									
Rel. Hum.	3527956			49868		67.0		15.799		744		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F					Total															
Dry Bulb	1648732			34264		46.1		9.758		744				6.9	2.0	.1						93															
Wet Bulb	1302081			30563		41.1		7.917		744				12.5								93															
Dew Point	961735			25995		34.9		8.484		744				36.0								93															

CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414 HECTOR APT FARGO ND
STATION STATION NAME

73-80

YEARS

OCT
MONTH

PAGE 1 1200-1400
HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point					
86 / 85													.3					2	2							
84 / 83													.3					2	2							
82 / 81												.3						2	2							
80 / 79										.5	.1							5	5							
78 / 77									.1	.1	.1	.3						5	5							
76 / 75								.1	.3	.4	.3	.3						10	10							
74 / 73								.1	.8	.3	.1							10	10							
72 / 71						.1	.1	.5	.7	.4	.1							15	15							
70 / 69					.3	.5	.1	.9	.8	.3	.3							24	24							
68 / 67					.3	.3	.5	.8	1.3	.5								28	28							
66 / 65		.4			.1	.4	.8	.7	.9	.4	.1							29	29	1						
64 / 63			.5	.5	.5	.7	1.1	.9	.4		.1							36	36	2	3					
62 / 61			.4		.1	.8	1.5	.9	.1	.1								30	30	14						
60 / 59		.4	.4	.3	.9	.5	2.3	.4	.3									41	41	22						
58 / 57		.1	.3	.5	.9	1.9	1.1	1.1	.1									45	45	32	6					
56 / 55		.8		.7	.8	1.6	1.6	.5										45	45	33	11					
54 / 53	.3	.1	.1	.8	1.2	2.2	2.3	.3										54	54	45	13					
52 / 51	.1	.1	.4	.4	1.6	2.8	.3	.1										44	44	44	13					
50 / 49		.1	.7	2.3	1.5	.8	.3											42	42	53	10					
48 / 47	.4	.8	.4	1.3	1.5	.4												36	36	59	30					
46 / 45		1.1	1.6	3.0	2.4	.1												61	61	51	32					
44 / 43		.8	1.3	1.9	.9	.5												41	41	88	45					
42 / 41		1.1	1.1	1.9	.9	.5												41	41	73	41					
40 / 39	.1	.7	.8	.7	.8	.3												25	25	66	44					
38 / 37		.8	.4	.7	.3													16	16	45	68					
36 / 35	.3	1.2	.7	1.1	.3													26	26	30	77					
34 / 33	.8	.5	.1	.4	.1													15	15	34	68					
32 / 31	.3	.1	.4	.4														9	9	28	83					
30 / 29			.3	.3														4	4	10	55					
28 / 27			.1															1	1	6	39					
26 / 25																				7	34					
24 / 23																				1	13					
22 / 21																					19					
20 / 19																					14					
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb																										
Wet Bulb																										
Dew Point																										

2

PSYCHROMETRIC SUMMARY

73-80

YEARS

OCT

MON'N

PAGE 2

1200-1400

HOURS . . . S . . T . .

[illegible]

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

[illegible]

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
 SAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

OCT
MONTH

PAGE 2 1500-1700
HOURS, L.S.T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1014	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

OCT
MONTH

PAGE 2 1800-2000

[illegible]

ALBANY CLIMATOLOGY BRANCH
ALBANY
ALBANY WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

OCT

MONTH

PAGE 2 2100-2300
HOURS L. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

OCT
MONTH

PAGE 1

ALL

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point												
8 / 87														.0				1	1														
6 / 85												.0	.1	.0				7	7														
4 / 83												.0	.1					5	5														
2 / 81												.1	.0					7	7														
0 / 79										.1	.1	.1	.0					14	14														
7 / 77									.0	.1	.1	.1	.0					18	18														
16 / 75								.0	.1	.1	.1	.1						21	21														
24 / 73							.0	.0	.2	.1	.1	.0						29	29														
32 / 71						.0	.1	.2	.3	.1	.0	.0						42	42														
40 / 69					.1	.2	.1	.3	.3	.2	.0							68	68														
48 / 67				.0	.1	.1	.2	.3	.4	.2								78	78														
56 / 65	.0	.2		.1	.1	.2	.3	.2	.3	.1	.0							94	94	11	10												
64 / 63	.1	.1	.2	.2	.2	.3	.4	.4	.3	.1	.0							136	136	9	9												
72 / 61	.0	.2	.3	.1	.2	.4	.6	.4	.0	.0								133	133	45	5												
80 / 59	.0	.2	.3	.2	.4	.7	.7	.3	.2									173	173	87	12												
88 / 57		.3	.2	.4	.8	.9	.6	.3	.1									211	211	109	28												
96 / 55	.1	.6	.2	.7	.8	1.1	.7	.2										261	261	134	51												
104 / 53	.3	.5	.4	1.2	1.1	.8	.7	.2	.0									312	312	185	86												
112 / 51	.6	.5	.8	.8	1.2	1.0	.4	.1										314	314	234	106												
120 / 49	.3	.2	1.2	1.4	1.4	.6	.2	.0										313	313	318	95												
128 / 47	.2	.9	.9	1.6	1.2	.6	.0											326	326	332	111												
136 / 45	.2	1.1	1.7	2.1	1.1	.4												385	385	379	187												
144 / 43	.1	1.7	2.4	1.9	.7	.3												417	417	435	268												
152 / 41	.2	2.4	3.2	1.8	.5	.2												499	499	511	308												
160 / 39	.8	2.2	2.8	1.0	.4	.1												433	433	624	374												
168 / 37	.3	2.5	2.0	.8	.2													341	341	550	476												
176 / 35	.4	2.2	1.7	.6	.2													300	300	451	574												
184 / 33	.7	2.5	1.5	.4	.1	.0												307	307	412	576												
192 / 31	.8	2.4	1.2	.2	.0													272	272	378	672												
200 / 29	.3	1.3	.6	.2														141	141	271	453												
208 / 27	.1	.9	.5	.0														87	87	148	389												
216 / 25	.1	.5	.4															56	56	113	334												
224 / 23	.1	.3	.1															31	31	64	197												
232 / 21	.1	.5	.1															47	47	54	181												
Element (X)	Σ x ²			Σ x			x̄		s _x		No. Obs.		Mean No. of Hours with Temperature																				
Rel. Hum.													≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total								
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AF WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

OCT
MONTH

PAGE 2

ALL

HOAS L. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-714	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

NOV

MONTE

PAGE 1 0000-0200

MOUSE ST

NOV 16 1964

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
4 / 53			.6															4	4					
2 / 51		.8	.4			.1												10	10					
5 / 49		.1	.1				.1											3	3	10				
4 / 47				.4	.1	.1												5	5	5	10			
4 / 45			.4	1.1			.1											12	12		2			
4 / 43		.3	.7	.4														10	10	1	2			
4 / 41			.7	.4	.3	.1												11	11	12	1			
4 / 39	.8	1.4	.6	.7														25	25	18	9			
3 / 37	.1	2.1	.8	.8	.6													32	32	25	3			
3 / 35	.1	1.5	1.3	.3	.3													25	25	21	22			
3 / 33	.8	4.0	1.4	.1														46	46	42	23			
2 / 31	1.9	6.9	1.7	.4	.1													80	80	58	54			
3 / 29	1.5	3.3	.8	.6														45	45	75	44			
2 / 27	1.8	4.0	1.0	.1														50	50	52	40			
2 / 25	1.4	5.7	.6															55	55	45	54			
2 / 23	.7	5.3	.4															46	46	75	44			
2 / 21	2.2	2.9		.1														38	38	46	40			
1 / 19	3.1	3.3	.1	.1														48	48	40	69			
1 / 17	.8	3.8	.4															36	36	38	55			
1 / 15	.3	1.8																15	15	25	38			
1 / 13	1.0	2.1	.1															23	23	22	41			
1 / 11	1.9	.8																20	20	23	26			
1 / 9	1.1	1.8																21	21	16	21			
1 / 7	.4	1.3																12	12	18	24			
1 / 5		.3																2	2	6	19			
1 / 3	.1	1.0																8	8	8	11			
1 / 1		.6																4	4	5	13			
1 / -1	1.0																	7	7	7	7			
-1 / -3	.4	.7																8	8	6	7			
-1 / -5	.3	.1																3	3	5	3			
-1 / -7	.7																	5	5	5	2			
-1 / -9	.7																	5	5	5	7			
-1 / -11	.4																	3	3	3	2			
-1 / -13	.3																	2	2	2	3			
Element (X)	Σ x ²		Σ x		Σ		σ _n		No. Obs.		Mean No. of Hours with Temperature													
Rel. Num.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

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MONTH

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HOURS 11.5.11

[illegible]

2
 METEOROLOGICAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND
 STATION STATION NAME

73-80

YEARS

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MONTH

PAGE 1

0300-0500

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point					
54 / 53			.3	.1														3	3						
52 / 51		.6																4	4						
50 / 49		.6			.1													5	5	6					
48 / 47		.1																1	1	5	5				
46 / 45		.1	.3	.4	.1													7	7	1	5				
44 / 43			.8	.3	.1													9	9	1	3				
42 / 41		.7	1.1	.6	.4													20	20	5	1				
40 / 39	.6	1.4	.3	.7	.1													22	22	17	5				
38 / 37	.6	1.1	.3		.3													16	16	24	5				
36 / 35	.3	1.5	.4	.1	.3													19	19	23	20				
34 / 33	.6	4.0	.7	.7	.4													46	46	26	21				
32 / 31	1.5	6.4	1.9	.3														73	73	47	43				
30 / 29	2.4	3.9	1.1	.4														56	56	78	32				
28 / 27	1.4	5.7	.7	.3														58	58	59	56				
26 / 25	1.5	4.6	.4															47	47	56	53				
24 / 23	.6	6.8	.4															56	56	68	29				
22 / 21	1.3	2.6		.3														30	30	44	43				
20 / 19	4.6	2.9		.1														55	55	48	76				
18 / 17	2.5	1.9	.1															33	33	44	50				
16 / 15	.3	2.8																22	22	16	58				
14 / 13	.8	1.0																13	13	24	30				
12 / 11	1.8	1.1																21	21	16	19				
10 / 9	1.8	1.3																22	22	22	31				
8 / 7	1.1	1.9																22	22	22	29				
6 / 5	.7	.6																9	9	16	9				
4 / 3	.4	1.3																12	12	12	18				
2 / 1	.1	.3																3	3	3	16				
0 / -1	.4																	3	3	4	9				
-2 / -3	.4	.3																5	5	4	10				
-4 / -5	.6																	4	4	5	6				
-6 / -7	1.5	.1																12	12	12	3				
-8 / -9	.8																	6	6	6	1				
-10 / -11																					2				
-12 / -13																					5				
Element (X)	Σx^2			Σx			\bar{x}			s_x			No. Obs.			Mean No. of Hours with Temperature							Total		
Rel. Num.																$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total			
Dry Bulb																									
Wet Bulb																									
Dew Point																									

2

YEARS

NOV
MONTH

PAGE 2

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10014 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

NOV
MONTH

PAGE 1 0600-0800
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point										
51 / 51		.4	.1															4	4												
50 / 49		.7		.1	.1	.1												8	8	3											
49 / 47		.1		.1														2	2	7	4										
48 / 45		.3			.1													3	3	2	6										
47 / 43			.6															4	4	1	2										
46 / 41	.1	.6	1.3	.4	.1													18	18	5	2										
45 / 37		1.1	.6	1.1														20	20	12	1										
44 / 37	.4	1.1	.6	.1														16	16	17	3										
43 / 35	.7	1.8	.1		.1													20	20	23	24										
42 / 33	.8	3.8	1.3	.4	.1													46	46	35	15										
41 / 31	1.9	4.7	1.1															56	56	47	48										
40 / 29	3.6	3.8	2.9	.1														75	75	71	36										
39 / 27	1.8	3.5	.6															42	42	51	58										
38 / 25	1.7	5.1	.4	.1														53	53	53	42										
37 / 23	1.8	6.0	.3	.3														60	60	79	23										
36 / 21	1.9	2.9	.3															37	37	46	57										
35 / 19	2.9	2.5	.1															40	40	42	67										
34 / 17	1.5	2.9																32	32	30	52										
33 / 15	1.8	3.6																39	39	36	47										
32 / 13	1.1	1.3																17	17	24	46										
31 / 11	1.5	1.0																18	18	23	20										
30 / 9	1.1	.8																14	14	12	31										
29 / 7	1.3	2.4																26	26	21	25										
28 / 5	.6	.6																8	8	17	7										
27 / 3	1.0	1.7																19	19	16	16										
26 / 1	.7	.6																9	9	13	14										
25 / -1	.3																	2	2	2	13										
24 / -3	.4																	3	3	3	17										
23 / -5	.8																	6	6	6	8										
22 / -7	1.0																	7	7	7	2										
21 / -9	.4																	3	3	3	2										
20 / -11	.6																	4	4	4	3										
19 / -13	.4																	3	3	3	3										
18 / -15	.6																	4	4	4	4										
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature										Total	Rel. Hum.	Dry Bulb	Wet Bulb	Dew Point						
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$															
Dry Bulb																															
Wet Bulb																															
Dew Point																															

NOV

PAGE 2 C600-0800
HOURS: 11.5. T.

[illegible]

YEARS

MONTH

0900-1100

HOURS: 11 A.M. - 5 P.M.

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
JG-FETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

NOV
MONTH

PAGE 2

0900-1100
HOURS L. S. T.

[illegible]

YEARS

NOV
MONTH

1200-1400
HOURS U.S.T.

[illegible]

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NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14 HECTOR APT FARGO ND 73-80 NOV
STATION STATION NAME YEARS MONTH
PAGE 1 1500-1700
HOURS (L.S.T.)

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point						
74 / 73												.1						1	1								
72 / 71											.1							1	1								
70 / 69								.6			.1							5	5								
68 / 67							.3			.1								3	3								
66 / 65						.1			.1									2	2								
64 / 63							.1	.1	.1									3	3								
62 / 61					.1			.3	.3									5	5								
60 / 59							.6	.4										7	7								
58 / 57			.3		.4	.8	.4	.1										15	15	3							
56 / 55		.1	.3	.1	.3	1.0	.4	.1										17	17	4							
54 / 53			.3	.6	.1	.4	.4	.3										15	15	5							
52 / 51			.4	.1	.4	.3	.1											10	10	6	3						
50 / 49			.1	.1	.4	.4	.1	.4										12	12	14	4						
48 / 47		.1	.1	1.1	.6	.6	.4	.3										23	23	18	2						
46 / 45		.1	.7	.4	.6	.1	.3											16	16	21	9						
44 / 43			1.4	1.1	.6	1.0												29	29	13	8						
42 / 41			1.0	1.0	.1	.4												18	18	21	3						
40 / 39		.4	.6	.8	1.0													20	20	25	8						
38 / 37		1.5	.4	.6	.3													20	20	29	18						
36 / 35	.3	3.2	2.1	1.5	.3	.3												55	55	34	24						
34 / 33	1.1	4.9	1.7	1.0	.1	.1												64	64	58	35						
32 / 31	.6	3.6	2.6	.7	.1													55	55	69	62						
30 / 29	.4	4.3	2.4	.1	.1													53	53	53	34						
28 / 27		4.4	1.4	.4														45	45	60	51						
26 / 25		4.2	1.1	.3														40	40	57	55						
24 / 23		3.6	1.4															36	36	41	36						
22 / 21	.6	2.9	1.0															32	32	41	47						
20 / 19	.7	2.9	.6															30	30	33	65						
18 / 17	.4	1.4	.3															15	15	34	51						
16 / 15		1.0	.1															8	8	14	36						
14 / 13	.1	1.3																10	10	3	42						
12 / 11	.4	.6																7	7	13	18						
10 / 9	.1	.7																6	6	6	15						
8 / 7		1.4																10	10	6	15						
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature																
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																											
Wet Bulb																											
Dew Point																											

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

NOV
MONTH

PAGE 2 1500-1700
HOURS (M, S, T)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
OSAFETAC
A1C - FATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

10-14	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

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MONTH

PAGE 1

1800-2000
HOURS (L.S.T.)

[illegible]

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YEARS

NOV
MONTH

PAGE 2 1800-2000
HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
JUN 71

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14414 HECTOR APT FARGO ND

73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point					
59 / 59						.1		.1										2	2							
57 / 57			.1				.1											2	2							
55 / 55			.1		.1		.1	.1										4	4							
54 / 53		.3	.7		.1	.3	.1											11	11	1						
52 / 51			.4	.3		.1												6	6	4						
50 / 49					.4													3	3	6	4					
47 / 47			.3	.4	.3													7	7	3	6					
46 / 45			.7	.8														11	11	6	2					
44 / 43		.3	.4	.1														6	6	8	1					
42 / 41		.4	1.7		.3	.3												19	19	17	2					
40 / 39	.4	.8	.8	.7	.1	.1	.1											23	23	16	6					
38 / 37	.1	1.0	1.0	1.5	.4	.1												30	30	18	13					
36 / 35	.4	1.9	1.4	.6	.3													33	33	15	15					
34 / 33	1.0	4.2	1.9	.1	.3													54	54	50	31					
32 / 31	2.1	4.9	2.1	.1														66	66	65	53					
30 / 29	1.1	4.0	.8	.1														44	44	63	40					
28 / 27	1.1	4.6	.8															47	47	59	46					
26 / 25	.4	4.9	1.4															48	48	48	43					
24 / 23	.6	4.6	.7															42	42	51	32					
22 / 21	1.9	3.1	.3	.1														39	39	49	63					
20 / 19	1.9	3.6	.7	.1														46	46	39	58					
18 / 17	.7	5.1	.1															43	43	34	40					
16 / 15	1.3	1.3																18	18	45	48					
14 / 13	.7	2.6																24	24	14	47					
12 / 11	1.0	1.4																17	17	29	23					
10 / 9	.7	.8																11	11	14	22					
8 / 7	.3	1.4																12	12	9	26					
6 / 5	.1	.3																3	3	7	19					
4 / 3		.7																5	5	5	12					
2 / 1	.3	1.0																9	9	9	10					
0 / -1	1.0	.6																11	11	8	5					
-2 / -3	.7	.6																9	9	12	10					
-4 / -5	.7	.1																6	6	6	6					
-6 / -7	1.0																	7	7	8	3					
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Mean No. of Hours with Temperature							
Rel. Hum.													≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																										
Wet Bulb																										
Dew Point																										

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR-FASTER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14514	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

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2100-2300

HOURS (L, S, T)

[illegible]

NOV
MONTH

ALL

HOURS (L.S.T.)

[illegible]

2

PSYCHROMETRIC SUMMARY

DEC
MONTH

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USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-514
STATION

HECTOR APT FARGO ND
STATION NAME

73-80

YEARS

DEC

MURIN

PAGE 2

0300-3500

MOAS S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
GCFETAC
AIR WEATHER SERVICE/MAC

YEARS _____ DEC _____
 MONTH _____
 PAGE 2 0900-1100
 HOURS U. S. T. _____

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

DEC
MONTH

PAGE 2 0900-1100
HOURS L. S. T.

[illegible]

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914 HECTOR APT FARGO ND
STATION STATION NAME

73-80
YEARS

DEC
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
44 / 45				.3	.1													3	3					
44 / 43				.3														2	2					
42 / 41			.7	.3														7	7					
41 / 39		.1	.1															2	2	4				
39 / 37		.5	1.2	.3														15	15	10				
38 / 35		1.2	1.6	.1														22	22	5	1			
34 / 33	.7	2.6	1.5															35	35	34	8			
32 / 31	.9	2.0	2.2	.1														39	39	32	39			
29 / 29	1.6	1.7	.8															31	31	41	18			
28 / 27	1.6	2.8	.9															40	40	37	36			
27 / 25	2.2	3.0	.3															40	40	49	34			
24 / 23	1.1	2.3																25	25	34	34			
22 / 21	1.9	3.1	.7															42	42	45	34			
21 / 19	3.5	4.4	.8	.1														66	66	41	47			
18 / 17	1.3	3.0	.1															33	33	52	48			
17 / 15	.7	2.3	.3															24	24	26	37			
16 / 13	.5	4.7	.3															41	41	26	33			
17 / 11	.4	3.5	.1															30	30	37	18			
17 / 9	1.3	3.0																32	32	40	29			
17 / 7	.8	2.8																27	27	29	36			
17 / 5	.3	2.6																21	21	26	18			
17 / 3	.3	3.6																29	29	26	29			
17 / 1	.3	3.5																28	28	32	27			
17 / -1	2.8	.9																28	28	29	19			
-1 / -3	.4	1.9																17	17	17	26			
-4 / -5	1.7	.8																19	19	23	19			
-7 / -7	1.1	.4																11	11	12	17			
-7 / -9	1.9																	14	14	16	16			
-11 / -11	1.1																	8	8	8	25			
-11 / -13	.5																	2	2	2	16			
-11 / -15	.4																	3	3	3	19			
-11 / -17	.5																	4	4	4	15			
-11 / -19	.5																	4	4	4	16			
-11 / -21																					11			
Element (X)	Σ X ²		Σ X		X̄		s _x		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

GENERAL CLIMATOLOGY BRANCH
JAFETAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

DEC
MONTH

PAGE 2 1200-1400
HOURS L. S. T.

[illegible]

YEARS

MONTH

HOURS: 8:30 A.M. - 5:00 P.M.

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

GLOBAL CLIMATOLOGY BRANCH
DPAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-8C

YEARS

DEC
MONTH

PAGE 2

1500-1700
HOURS (L. S. T.)

[illegible]

73-80

YEARS

DEC
MONTH

PAGE 2 1800-2000

HOURS (L, S, T)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

YEARS

DEC
MONTH

PAGE 2 2100-2300
HOURS L. S. T.

[illegible]

GLOBAL CLIMATOLOGY BRANCH
METAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-80

DEC
MONTH

PAGE 2

ALL

HOURS U. S. T.

[illegible]

14914	HECTOR APT FARGO ND
STATION	STATION NAME

73-81

ALL
MONTH

ALL

NO. 15

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb Dew															
100/105																		.0	2	2															
100/103																		.0	4	4															
102/101																.0	.0	.0	10	10															
100/99												.0		.0	.0	.0	.0	.0	17	17															
96/97										.0	.0	.0	.0	.0	.0	.0	.0	.0	27	27															
96/95									.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	70															
94/93								.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	86															
92/91							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	148															
88/89					.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	252	252															
86/87				.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	395	395															
84/85			.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0		545	545																
84/83			.0	.0	.1	.1	.1	.2	.1	.1	.1	.1	.1	.0	.0	.0		727	727																
82/81		.0	.0	.0	.1	.1	.2	.2	.2	.1	.1	.1	.1	.0	.0	.0		817	817	6															
80/79	.0		.0	.0	.1	.2	.2	.2	.2	.2	.1	.1	.1	.0	.0			1082	1082	36															
78/77	.0	.0	.0	.1	.2	.2	.3	.3	.2	.2	.1	.0	.0	.0				1174	1174	119															
76/75	.0	.0	.1	.2	.2	.3	.3	.3	.3	.1	.1	.0	.0	.0				1382	1382	285															
74/73	.0	.0	.1	.3	.2	.3	.3	.3	.2	.1	.1	.1	.0					1401	1401	516															
72/71	.0	.1	.2	.3	.3	.3	.3	.3	.2	.1	.1	.0						1535	1535	697															
70/69	.0	.2	.4	.3	.4	.4	.3	.3	.1	.1	.1	.0						1932	1932	1066															
68/67	.0	.2	.4	.4	.4	.4	.3	.2	.2	.1	.0	.0						1917	1917	1512															
66/65	.0	.4	.5	.6	.4	.3	.3	.2	.1	.1	.0	.0						2118	2118	1628															
64/63	.0	.4	.6	.6	.4	.3	.3	.2	.1	.1	.0							2066	2066	2136															
62/61	.0	.6	.6	.5	.4	.3	.2	.2	.1	.0	.0							2051	2051	2516															
60/59	.0	.6	.7	.5	.4	.3	.2	.2	.1	.0	.0							2096	2096	2777															
58/57	.0	.7	.7	.5	.3	.3	.2	.1	.1									2025	2025	2822															
56/55	.1	.6	.6	.4	.4	.3	.2	.1	.0									2007	2007	2589															
54/53	.1	.6	.6	.5	.3	.3	.2	.1	.0									1862	1862	2531															
52/51	.1	.6	.6	.3	.4	.3	.1	.0	.0									1700	1700	2183															
50/49	.1	.5	.6	.5	.4	.2	.1	.0										1618	1618	2126															
48/47	.1	.6	.4	.4	.3	.2	.0	.0										1405	1405	1990															
46/45	.1	.6	.6	.5	.3	.1	.0	.0										1586	1586	2014															
44/43	.1	.6	.7	.4	.2	.1	.0	.0										1527	1527	1951															
42/41	.1	.7	.8	.4	.2	.1	.0											1587	1587	1923															
40/39	.2	.6	.8	.3	.2	.0	.0											1464	1464	1935															
Element (X)	Σ x ²			Σ x			x̄			s _x			No. Obs.			Mean No. of Hours with Temperature																			
Rel. Num.																≤ 0 F	≤ 12 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

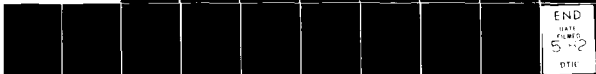
AD-A113 156 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
HECTOR APT, FARGO, NORTH DAKOTA. REVISED UNIFORM SUMMARY OF SUR--ETC(U)
JAN 82

UNCLASSIFIED USAFETAC/DS-82/001

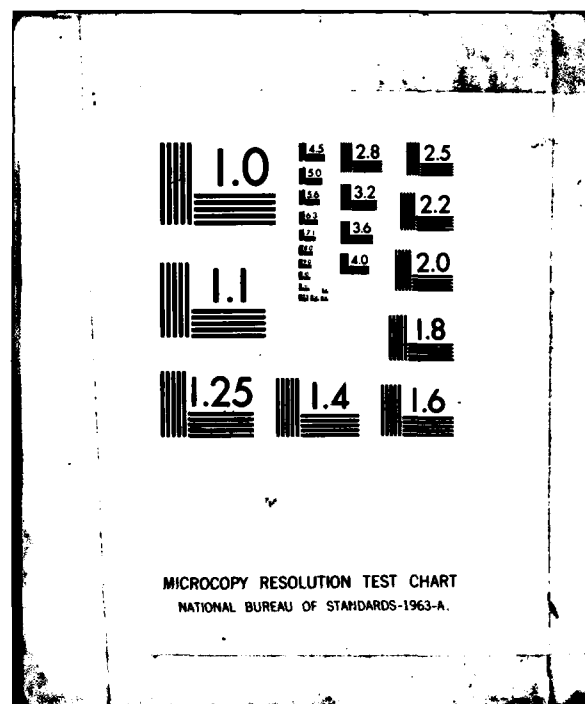
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14-14 HECTOR APT FARGO ND
STATION STATION NAME

73-81

YEARS

ALL
MONTH

PAGE 2

ALL
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
3 / 37	.1	.9	.6	.3	.1	.0												1451	1451	1811	1881	
34 / 35	.2	1.3	.6	.2	.1	.0												1668	1668	1865	2157	
34 / 33	.4	1.5	.7	.2	.0	.0												1964	1964	2251	2173	
32 / 31	.5	2.0	.7	.1	.0													2331	2331	2174	3174	
30 / 29	.5	1.4	.5	.1	.0													1674	1674	2339	2286	
28 / 27	.5	1.5	.3	.0														1586	1586	1920	2295	
28 / 25	.4	1.6	.2	.0														1567	1567	1747	2378	
24 / 23	.3	1.2	.1	.0														1187	1188	1725	1580	
22 / 21	.7	1.3	.1	.0														1508	1508	1587	2029	
20 / 19	.9	1.3	.1	.0														1580	1580	1460	2264	
18 / 17	.6	1.2	.1															1258	1258	1409	1774	
16 / 15	.5	1.1	.0															1157	1157	1180	1739	
14 / 13	.5	1.0	.0															1087	1087	1048	1469	
12 / 11	.8	.6	.0															1022	1022	1261	1108	
10 / 9	.6	.8	.0															987	987	954	1258	
8 / 7	.5	1.1																1154	1154	1035	1096	
6 / 5	.4	1.1																1036	1037	1281	755	
4 / 3	.3	1.2																1006	1006	1008	880	
2 / 1	.2	1.3																996	997	920	872	
0 / -1	.8	.3																759	760	877	678	
-2 / -3	.5	.4																643	644	724	835	
-4 / -5	.8	.1																639	639	710	792	
-6 / -7	.8	.0																555	555	589	675	
-8 / -9	.7																	517	517	532	609	
-10 / -11	.7																	503	503	503	636	
-12 / -13	.4																	267	267	267	462	
-14 / -15	.6																	408	408	408	634	
-16 / -17	.4																	283	283	283	560	
-18 / -19	.4																	275	275	275	612	
-20 / -21	.2																	165	165	165	470	
-22 / -23	.1																	86	86	86	395	
-24 / -25	.1																	82	82	82	362	
-26 / -27	.1																	52	52	52	246	
-28 / -29	.0																	7	7	7	197	
Element (X)	Σ x ²		Σ x		x̄		σ _x		No. Obs.		Mean No. of Hours with Temperature							Total				
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						
Dry Bulb																						
Wet Bulb																						
Dew Point																						

CLIMATE CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1-14 HECTOR APT FARGO ND

73-81

STATION		STATION NAME							YEARS							
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL		
1-14	MEAN	2.8	9.6	21.8	38.8	51.5	59.5	65.3	62.3	52.4	41.4	25.2	12.0	37.0		
	S.D.	15.018	14.634	13.251	10.857	10.340	7.663	7.055	7.521	9.553	9.741	12.131	13.443	23.894		
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8766		
1-15	MEAN	1.6	8.2	20.5	36.4	48.1	56.5	62.4	59.6	49.8	39.2	23.9	11.2	34.9		
	S.D.	14.819	14.618	13.458	10.356	10.390	7.508	7.099	7.648	9.718	9.616	12.235	13.476	23.212		
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8766		
1-16	MEAN	1.0	7.6	20.0	37.3	51.0	60.1	65.3	60.9	50.2	38.4	23.1	10.7	35.6		
	S.D.	14.912	14.746	13.667	10.387	9.988	6.694	6.493	7.049	9.501	9.300	12.265	13.485	24.260		
	TOTAL OBS	743	678	744	720	744	720	744	744	720	744	720	744	8765		
1-17	MEAN	2.7	10.7	24.4	44.6	60.0	68.5	74.2	69.8	59.3	46.1	26.7	12.2	41.7		
	S.D.	14.639	14.635	13.156	12.328	11.177	7.424	6.347	7.396	9.341	9.758	12.695	13.141	21.845		
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8766		
1-18	MEAN	7.2	15.9	29.3	50.1	65.4	73.7	79.9	75.7	66.3	53.2	32.1	16.3	47.2		
	S.D.	14.016	14.286	12.977	13.631	12.062	8.157	6.924	8.531	10.934	11.348	13.888	13.412	27.559		
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8766		
1-19	MEAN	8.6	17.7	31.2	52.4	67.4	75.4	81.6	77.5	68.2	54.6	32.5	16.9	48.8		
	S.D.	13.875	14.264	12.869	13.971	11.941	8.356	7.383	8.643	11.401	11.771	14.027	13.557	27.838		
	TOTAL OBS	743	678	744	720	743	720	744	744	720	744	720	744	8764		
1-20	MEAN	5.9	14.6	28.1	49.0	64.2	72.1	78.1	75.0	62.2	48.1	28.2	14.1	44.9		
	S.D.	14.375	14.170	12.568	12.990	11.419	8.001	7.173	8.324	10.552	10.313	12.706	13.691	27.237		
	TOTAL OBS	744	678	744	720	741	720	744	744	720	743	720	744	8762		
1-23	MEAN	4.1	11.8	24.5	42.9	56.4	64.1	69.7	66.0	55.8	43.8	26.0	12.8	39.9		
	S.D.	14.713	14.377	12.572	11.275	10.321	7.742	7.110	7.947	9.612	9.769	12.546	13.721	24.938		
	TOTAL OBS	744	678	743	720	740	720	744	744	720	744	719	744	8768		
ALL HOURS	MEAN	4.2	12.0	25.0	43.9	58.0	66.2	72.1	68.1	58.0	45.6	27.2	13.3	41.3		
	S.D.	14.765	14.869	13.636	13.348	12.951	10.238	9.811	10.222	12.097	11.709	13.234	13.655	26.257		
	TOTAL OBS	5953	5424	5951	5760	5944	5760	5952	5952	5760	5951	5759	5952	70113		

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1414 HECTOR APT FARGO ND
STATION STATION NAME

73-81

YEARS

HRS (LST)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
0-0	MEAN	2.5	9.0	20.5	35.4	46.0	55.0	60.6	57.7	48.3	37.8	23.6	11.3	34.1
	S.D.	14.654	14.261	12.611	9.290	9.091	6.561	6.236	6.459	8.549	8.609	11.300	13.201	22.001
	TOTAL OBS.	741	678	744	720	744	720	744	744	720	744	720	744	8763
0-1	MEAN	1.4	7.7	19.4	33.7	44.0	53.2	58.8	56.1	46.6	36.3	22.5	10.7	32.7
	S.D.	14.490	14.262	12.908	9.253	9.586	6.764	6.415	6.901	8.881	8.669	11.519	13.268	21.812
	TOTAL OBS.	742	678	744	720	744	720	744	744	720	744	720	743	8763
1-2	MEAN	.8	7.1	19.0	34.4	46.1	55.8	60.8	57.2	47.0	35.8	21.9	10.1	33.1
	S.D.	14.542	14.419	13.145	9.294	9.370	6.022	5.751	6.379	8.719	8.443	11.634	13.276	22.615
	TOTAL OBS.	740	678	744	720	744	720	744	744	720	744	720	744	8762
-11	MEAN	2.3	9.9	22.5	39.1	51.1	60.1	65.0	61.8	52.6	41.1	24.8	11.5	36.9
	S.D.	14.313	14.062	12.219	9.614	8.719	5.692	5.292	5.760	7.589	7.917	11.525	12.870	23.397
	TOTAL OBS.	744	678	744	720	744	720	744	744	720	744	720	744	8766
12-14	MEAN	6.5	14.5	26.4	42.3	53.2	61.8	66.7	63.7	55.6	44.9	28.5	15.1	40.0
	S.D.	13.526	13.348	11.362	9.508	8.626	5.716	5.619	6.051	7.680	8.194	11.552	12.847	22.514
	TOTAL OBS.	744	678	744	720	744	720	744	744	720	744	720	744	8766
15-17	MEAN	7.8	16.1	27.9	43.4	53.9	62.2	66.9	64.0	55.9	45.3	28.7	15.6	40.7
	S.D.	13.366	13.189	10.968	9.232	8.300	5.725	5.664	6.099	7.502	8.333	11.531	12.983	22.173
	TOTAL OBS.	743	678	744	720	743	720	744	744	720	744	720	744	8764
18-20	MEAN	5.4	13.5	25.6	41.6	52.4	61.1	66.0	62.4	53.2	42.0	25.8	13.3	38.6
	S.D.	14.026	13.547	11.304	9.213	8.335	5.965	5.809	6.125	7.795	8.341	11.295	13.341	22.660
	TOTAL OBS.	744	678	743	720	741	720	744	744	720	743	720	744	8763
1-23	MEAN	3.8	11.0	22.9	38.2	48.8	57.7	62.8	59.6	50.0	39.4	24.1	12.1	36.0
	S.D.	14.351	13.935	11.818	9.101	8.628	6.426	6.183	6.445	8.090	8.368	11.429	13.473	22.228
	TOTAL OBS.	740	678	743	720	740	720	744	744	720	744	719	744	8756
ALL HOURS	MEAN	3.8	11.1	23.0	38.5	49.4	58.4	63.4	60.3	51.1	40.3	25.0	12.5	36.5
	S.D.	14.355	14.215	12.454	9.941	9.475	6.896	6.558	6.909	8.816	9.022	11.713	13.286	22.615
	TOTAL OBS.	5936	5424	5958	5760	5944	5760	5952	5952	5760	5951	5759	5951	70101

REGIONAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1-414 HECTOR APT FARGO ND
 STATION

73-81

STATION		STATION NAME												YEARS											
HRS (LST.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL											
0-00	MEAN	-3.5	3.5	16.1	30.3	39.8	51.5	57.3	54.2	44.1	33.0	19.1	6.1	29.4											
	S.D.	17.730	16.819	14.298	10.168	11.224	7.284	6.964	7.263	9.650	9.491	12.664	16.040	23.396											
	TOTAL OBS	741	678	744	720	744	720	744	744	720	744	720	744	8763											
0-05	MEAN	-4.7	2.3	15.2	29.3	39.0	50.5	56.4	53.5	43.3	32.2	18.2	5.4	28.5											
	S.D.	17.892	16.695	14.619	10.213	11.354	7.272	6.837	7.418	9.679	9.398	12.877	16.163	23.484											
	TOTAL OBS	742	678	744	720	744	720	744	744	720	744	720	743	8763											
0-15	MEAN	-5.4	1.6	14.8	30.0	40.7	52.4	57.8	54.5	43.9	32.0	17.9	4.9	28.9											
	S.D.	18.106	16.888	15.018	10.209	10.852	6.832	6.372	6.865	9.430	9.060	12.976	16.174	24.141											
	TOTAL OBS	740	678	744	720	744	720	744	744	720	744	720	744	8762											
0-11	MEAN	-3.9	4.3	17.4	31.9	42.4	54.0	59.2	56.3	46.7	34.9	19.9	6.3	30.9											
	S.D.	17.370	16.266	13.699	10.400	11.345	7.197	7.064	7.288	9.002	8.484	12.550	15.647	23.954											
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8764											
1-14	MEAN	.1	8.5	20.0	32.7	41.7	53.4	58.6	55.8	46.4	35.4	21.7	9.2	32.1											
	S.D.	16.065	14.988	12.342	10.365	11.776	7.769	8.122	8.341	9.906	9.152	11.922	15.497	22.414											
	TOTAL OBS	744	678	744	720	744	720	744	744	720	744	720	744	8766											
1-17	MEAN	1.4	9.9	21.2	32.7	41.1	52.8	57.9	55.0	45.3	34.8	21.6	9.6	32.0											
	S.D.	15.962	14.829	11.807	10.147	11.920	8.108	8.503	8.738	10.217	9.719	11.984	15.696	21.827											
	TOTAL OBS	743	678	744	720	743	720	744	744	720	744	720	744	8764											
1-21	MEAN	-0.5	8.0	20.0	32.4	40.8	53.1	58.4	55.1	45.2	34.4	20.3	7.9	31.3											
	S.D.	16.822	15.621	12.474	10.312	12.102	8.415	8.326	8.364	9.952	9.805	12.267	16.170	22.719											
	TOTAL OBS	744	678	743	720	741	720	744	744	720	743	720	744	8761											
1-23	MEAN	-2.3	5.7	18.3	31.8	40.7	52.7	58.3	55.0	44.5	33.5	19.2	6.9	30.5											
	S.D.	17.247	16.241	13.279	10.088	11.690	7.693	7.313	7.654	9.626	9.483	12.509	16.369	23.169											
	TOTAL OBS	740	678	743	720	740	720	744	744	720	744	719	744	8756											
ALL HOURS	MEAN	-2.4	5.5	17.9	31.4	40.8	52.6	58.0	54.9	44.9	33.8	19.7	7.0	30.5											
	S.D.	17.162	16.303	13.664	10.308	11.572	7.653	7.511	7.803	9.747	9.407	12.539	16.043	23.184											
	TOTAL OBS	5938	5424	5950	5760	5944	5760	5952	5952	5760	5951	5759	5951	70101											

USAF ETAC FORM 0-89-5 (OL A)
 OCT 78

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14214
STATION

HECTOR APT FARGO ND
STATION NAME

74-81
PERIOD

JAN
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	99.9	99.2	83.8	54.9	34.6	14.6	74.1	741
	03-05	100.0	100.0	100.0	99.9	99.2	83.6	54.2	34.9	14.2	73.9	742
	06-08	100.0	100.0	100.0	100.0	99.2	84.9	52.3	33.6	14.2	73.7	740
	09-11	100.0	100.0	100.0	100.0	99.2	84.4	55.6	29.4	11.6	73.5	744
	12-14	100.0	100.0	100.0	100.0	98.8	81.6	52.6	26.9	9.5	72.5	744
	15-17	100.0	100.0	100.0	100.0	98.8	77.3	49.9	27.6	11.3	72.1	743
	18-20	100.0	100.0	100.0	100.0	99.2	81.0	55.6	32.8	10.9	73.4	744
	21-23	100.0	100.0	100.0	99.9	99.6	83.1	55.5	35.3	13.5	74.1	740
TOTALS		100.0	100.0	100.0	100.0	99.2	82.5	53.8	31.9	12.5	73.4	5938

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

PERIOD

FEB
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	99.9	99.1	88.9	64.9	41.6	15.3	76.3	676
	03-05	100.0	100.0	100.0	99.9	99.6	90.7	66.7	39.1	14.2	76.4	678
	06-08	100.0	100.0	100.0	99.9	99.3	89.7	66.8	40.6	13.3	76.3	678
	09-11	100.0	100.0	100.0	100.0	99.4	88.9	64.9	34.5	8.3	75.0	678
	12-14	100.0	100.0	100.0	100.0	99.0	85.0	58.8	21.7	4.1	72.4	678
	15-17	100.0	100.0	100.0	99.9	96.8	81.3	55.8	23.3	4.7	71.6	678
	18-20	100.0	100.0	100.0	99.9	98.7	87.2	65.3	33.6	8.6	75.0	678
	21-23	100.0	100.0	100.0	100.0	99.4	91.6	67.3	41.3	11.5	76.4	678
TOTALS		100.0	100.0	100.0	99.9	98.9	87.9	63.8	34.5	10.0	74.9	5424

RELATIVE HUMIDITY

MAR
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10°	20°	30°	40°	50°	60°	70°	80°	90°		
MAR	00-02	100.0	100.0	100.0	99.5	98.0	92.5	77.8	52.6	13.8	79.0	744
	03-05	100.0	100.0	100.0	100.0	98.4	92.6	81.2	58.3	16.7	80.1	744
	06-08	100.0	100.0	100.0	99.9	99.3	93.0	81.0	57.0	16.3	80.3	744
	09-11	100.0	100.0	100.0	98.5	96.0	86.6	66.3	37.9	12.1	75.2	744
	12-14	100.0	100.0	97.7	94.9	90.6	77.3	52.2	23.0	5.5	69.8	744
	15-17	100.0	100.0	96.4	93.4	88.2	75.8	49.5	20.6	5.0	68.5	744
	18-20	100.0	100.0	98.9	97.3	93.4	83.0	62.2	30.1	9.6	72.9	743
	21-23	100.0	100.0	100.0	99.2	97.3	91.8	76.2	45.5	11.3	77.8	743
TOTALS		100.0	100.0	99.1	97.8	95.2	86.6	68.3	40.6	11.3	75.5	5950

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14914 HECTOR APT FARGO ND
STATION STATION NAME

74-81

PERIOD

APR
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	99.3	95.4	88.2	75.8	59.6	44.2	18.2	73.7	720
	03-05	100.0	100.0	100.0	97.8	93.9	83.1	68.2	49.0	22.2	77.1	720
	06-08	100.0	100.0	99.9	98.8	93.2	81.5	65.8	47.4	21.0	76.5	720
	09-11	100.0	99.2	94.7	85.7	71.7	59.7	44.4	26.4	10.7	64.9	720
	12-14	100.0	95.0	83.6	70.3	58.2	45.7	31.0	18.8	7.1	56.6	720
	15-17	99.9	92.1	78.8	66.4	50.6	38.9	24.6	14.9	6.3	52.9	720
	18-20	100.0	95.8	84.3	74.2	61.7	50.7	32.6	17.4	7.1	58.2	720
	21-23	100.0	99.6	95.7	88.8	79.4	66.1	52.6	33.3	13.1	68.4	720
TOTALS		100.0	97.7	92.0	84.7	74.6	62.7	47.4	31.4	13.2	66.0	5760

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14914
STATION

HECTOR APT FARGO ND
STATION NAME

74-81

PERIOD

MAY
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	97.8	88.6	76.2	62.1	45.8	31.9	13.7	67.4	744
	03-05	100.0	100.0	100.0	95.8	85.1	73.7	59.1	41.0	16.5	73.0	744
	06-08	100.0	100.0	99.7	94.0	82.1	68.0	51.9	31.2	11.4	69.9	744
	09-11	100.0	98.4	87.2	73.1	58.5	42.6	26.5	13.0	4.3	56.1	744
	12-14	100.0	89.8	74.1	56.0	38.3	24.9	13.2	7.7	2.8	46.4	744
	15-17	100.0	85.2	68.5	48.0	30.0	19.0	11.4	6.2	2.0	42.9	743
	18-20	100.0	89.9	73.8	56.7	38.9	26.2	17.0	8.1	2.2	47.0	741
	21-23	100.0	99.3	89.9	76.6	63.9	47.8	34.7	20.5	6.6	59.6	740
TOTALS		100.0	95.3	86.4	73.6	59.1	45.5	32.5	20.0	7.4	57.8	5944

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

14214 HECTOR APT FARGO ND
STATION STATION NAME

73-80

PERIOD

JUN
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	99.4	94.3	83.3	66.9	43.1	15.0	76.2	720
	03-05	100.0	100.0	100.0	100.0	97.5	91.5	80.0	56.8	22.6	81.3	720
	06-08	100.0	100.0	100.0	99.9	97.6	86.5	68.8	42.2	14.7	76.9	720
	09-11	100.0	99.9	99.4	92.8	72.9	47.4	27.4	15.3	4.6	61.8	720
	12-14	100.0	99.7	93.9	69.6	44.0	25.3	16.3	6.9	1.5	51.5	720
	15-17	100.0	98.9	87.5	59.2	34.2	22.1	12.8	5.6	1.4	48.0	720
	18-20	100.0	99.4	93.6	75.1	52.6	31.9	19.9	8.2	2.4	53.8	720
	21-23	100.0	100.0	99.7	95.7	85.8	65.7	46.1	24.7	6.3	68.3	720
TOTALS		100.0	99.7	96.8	86.5	72.4	56.7	42.3	25.4	8.6	64.7	5760

USAFETACFORM
FD-36 (Rev. 4-15-64)

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AF WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14914 HECTOR APT FARGO ND
STATION STATION NAME

73-80

PERIOD

JUL
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	99.7	97.8	87.1	69.6	40.6	9.1	76.3	744
	03-05	100.0	100.0	100.0	99.9	98.5	96.0	84.1	58.5	15.7	91.5	744
	06-08	100.0	100.0	100.0	99.7	98.1	92.1	72.3	42.9	11.0	77.4	744
	09-11	100.0	100.0	99.3	92.5	76.5	48.9	25.0	10.8	1.5	61.0	744
	12-14	100.0	100.0	92.1	70.7	46.1	22.3	9.9	2.2	.3	50.0	744
	15-17	100.0	99.2	85.9	60.5	35.9	17.1	7.8	3.0	.7	46.6	744
	18-20	100.0	99.5	93.5	78.1	51.9	27.0	13.6	7.5	1.1	52.8	744
	21-23	100.0	100.0	100.0	98.8	90.7	69.8	44.2	18.5	3.4	68.1	744
TOTALS		100.0	99.8	96.4	87.5	74.4	57.5	40.8	23.0	5.4	64.2	5952

USAFETAC FORM 0-87.5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
CMAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14914 HECTOR API FARGO ND
STATION STATION NAME

73-80

PERIOD

AUG
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUNE	00-02	100.0	100.0	100.0	99.1	93.8	85.9	71.0	40.7	9.9	76.0	744
	03-05	100.0	100.0	100.0	100.0	97.8	92.3	83.6	59.1	16.1	80.9	744
	06-08	100.0	100.0	100.0	100.0	98.4	93.8	80.5	52.8	14.9	80.1	744
	09-11	100.0	100.0	98.9	93.3	79.3	58.3	34.8	16.1	3.8	64.1	744
	12-14	100.0	98.9	92.5	74.5	48.9	29.3	15.2	7.3	2.3	52.5	744
	15-17	100.0	97.7	89.1	62.9	36.3	22.0	12.1	5.9	1.3	48.4	744
	18-20	100.0	99.3	93.7	81.7	59.0	36.0	20.8	8.7	1.5	55.8	744
	21-23	100.0	100.0	99.7	94.9	86.8	73.0	48.7	23.1	4.4	69.1	744
TOTALS		100.0	99.5	96.7	88.3	75.0	61.3	45.8	26.7	6.8	65.9	5952

RELATIVE HUMIDITY

14914
STATION

HECTOR APT FARGO ND
STATION NAME

73-80

PERIOD

SEP
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	97.6	92.4	81.3	66.4	40.7	11.7	74.9	720
	03-05	100.0	100.0	100.0	99.2	96.1	91.0	77.1	53.8	16.1	79.3	720
	06-08	100.0	100.0	100.0	99.2	97.6	92.4	78.9	54.2	16.7	79.9	720
	09-11	100.0	100.0	98.8	93.5	78.5	60.0	38.8	18.3	5.6	65.2	720
	12-14	100.0	98.3	88.5	68.3	48.1	32.6	18.6	11.0	2.9	52.3	720
	15-17	100.0	94.0	79.4	57.2	38.2	26.1	16.4	8.2	1.1	47.9	720
	18-20	100.0	99.2	91.9	76.7	58.9	42.1	28.6	15.1	2.2	57.3	720
	21-23	100.0	100.0	98.8	94.2	82.2	66.0	49.0	25.1	6.9	68.0	720
TOTALS		100.0	98.9	94.7	85.7	74.0	61.4	46.7	28.3	7.9	65.6	5760

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

14914
STATION

~~HECTOR APT FARGO ND~~

STATION NAME

73-80

PERIOD

OCT

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
207	00-02	100.0	100.0	99.9	97.2	92.7	79.8	59.5	35.8	12.4	73.6	744
	03-05	100.0	100.0	99.9	98.9	96.0	87.8	70.6	43.8	16.7	77.0	744
	06-08	100.0	100.0	100.0	100.0	97.3	91.4	74.9	47.6	18.4	78.7	744
	09-11	100.0	100.0	99.9	96.6	83.5	61.8	40.6	20.4	8.1	67.0	744
	12-14	100.0	99.6	92.5	73.5	50.3	32.1	18.8	12.0	5.8	54.1	744
	15-17	100.0	98.9	86.6	62.4	42.1	27.0	17.9	11.0	5.8	50.9	744
	18-20	100.0	100.0	96.9	86.5	68.9	49.3	32.8	16.6	7.4	61.7	743
	21-23	100.0	100.0	99.5	95.0	85.2	69.2	47.8	28.0	8.6	68.9	744
TOTALS		100.0	99.8	96.9	88.8	77.0	62.3	45.4	26.9	10.4	66.5	5951

USAFETACFORM
JUL 64

0-87-5 (OL A)

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14214 HECTOR APT FARGO ND
STATION STATION NAME

73-80

PERIOD

NOV
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	99.9	98.3	95.4	89.0	76.7	51.1	18.2	78.5	720
	03-05	100.0	100.0	100.0	98.6	96.7	91.9	79.2	54.7	21.0	79.6	720
	06-08	100.0	100.0	100.0	99.6	98.6	92.8	81.5	56.9	23.6	80.6	720
	09-11	100.0	100.0	99.7	98.1	95.6	86.4	70.1	42.8	15.6	76.3	720
	12-14	100.0	100.0	97.1	91.7	85.7	69.3	47.2	26.0	7.2	68.1	720
	15-17	100.0	99.7	96.4	89.7	82.4	66.7	48.9	24.2	5.7	67.0	720
	18-20	100.0	99.6	98.9	96.9	92.4	80.1	65.4	39.7	11.9	74.0	720
	21-23	100.0	100.0	99.6	97.8	94.9	87.3	70.4	47.1	14.6	76.7	719
TOTALS		100.0	99.9	99.0	96.3	92.7	82.9	67.4	42.8	14.7	75.1	5759

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

14714
STATION

HECTOR API FARGO ND
STATION NA

73-80

PERIOD

DEC
MONIM

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JEC	00-02	100.0	100.0	100.0	99.7	98.5	85.6	67.2	44.1	20.4	77.3	744
	03-05	100.0	100.0	100.0	99.3	98.3	85.7	68.2	46.4	20.6	77.4	743
	06-08	100.0	100.0	100.0	99.6	98.1	85.9	67.3	46.9	21.2	77.5	744
	09-11	100.0	100.0	100.0	100.0	99.2	86.4	66.9	43.8	20.6	77.2	744
	12-14	100.0	100.0	100.0	99.9	97.3	79.2	56.5	32.0	15.7	73.7	744
	15-17	100.0	100.0	100.0	99.9	95.8	77.0	59.0	32.9	15.6	73.4	744
	18-20	100.0	100.0	100.0	99.9	98.5	83.2	66.8	42.6	17.6	76.2	744
	21-23	100.0	100.0	100.0	99.9	97.8	84.1	66.9	43.3	20.7	77.1	744
TOTALS		100.0	100.0	100.0	99.8	97.9	83.4	64.9	41.5	19.1	76.2	5951

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

14914
STATION

HECTOR APT FARGO ND
STATION NAME

73-81

PERIOD

ALL
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.2	82.5	53.8	31.9	12.5	73.4	5938
FEB		100.0	100.0	100.0	99.9	98.9	87.9	63.8	34.5	10.0	74.9	5424
MAR		100.0	100.0	99.1	97.8	95.2	86.6	68.3	40.6	11.3	75.5	5950
APR		100.0	97.7	92.0	84.7	74.6	62.7	47.4	31.4	13.2	66.0	5760
MAY		100.0	95.3	86.4	73.6	59.1	45.5	32.5	20.0	7.4	57.8	5944
JUN		100.0	99.7	96.8	86.5	72.4	56.7	42.3	25.4	8.6	64.7	5760
JUL		100.0	99.8	96.4	87.5	74.4	57.5	40.8	23.0	5.4	64.2	5952
AUG		100.0	99.5	96.7	88.3	75.0	61.3	45.8	26.7	6.8	65.9	5952
SEP		100.0	98.9	94.7	85.7	74.0	61.4	46.7	28.3	7.9	65.6	5760
OCT		100.0	99.8	96.9	88.8	77.0	62.3	45.4	26.9	10.4	66.5	5951
NOV		100.0	99.9	99.0	96.3	92.7	82.9	67.4	42.8	14.7	75.1	5759
DEC		100.0	100.0	100.0	99.8	97.9	83.4	64.9	41.5	19.1	76.2	5951
TOTALS		100.0	99.2	96.5	90.7	82.5	69.2	51.6	31.1	10.6	68.6	70101

USAFETAC

FORM
JUL 84

0-87-5 (OL A)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

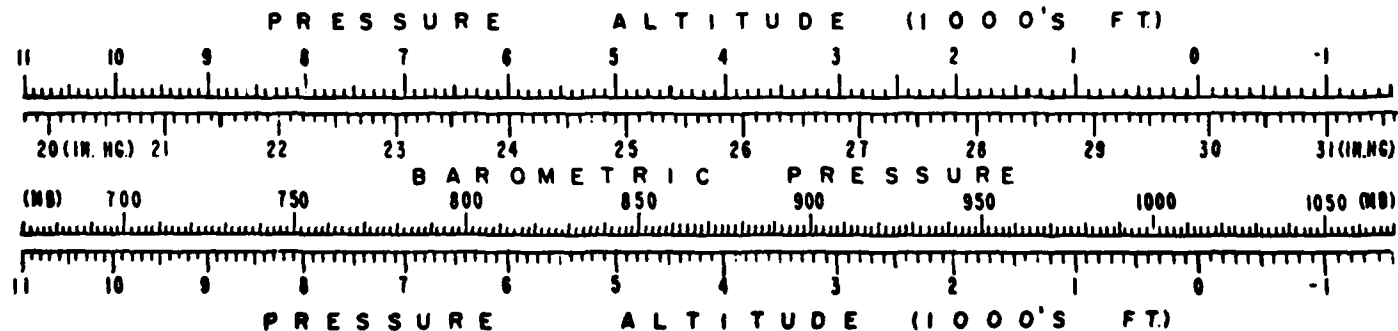
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



JOINT PAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

1-14 HECTOR APT FARGO ND

73-81

STATION		STATION NAME												YEARS												
HRS (LST)																										
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL												
0	MEAN	29.1182	29.0942	28.9992	29.0082	28.9462	28.9132	28.9622	28.9662	29.0032	29.0112	29.0502	29.054	29.010												
	S D	.286	.286	.249	.232	.185	.174	.152	.163	.196	.238	.265	.282	.237												
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922												
	MEAN	29.1172	29.0872	28.9842	29.0002	28.9442	28.9052	28.9582	28.9622	29.0002	29.0112	29.0422	29.052	29.005												
	S D	.284	.290	.255	.236	.190	.181	.156	.164	.196	.239	.271	.282	.240												
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922												
	MEAN	29.1132	29.0892	28.9842	29.0142	28.9632	28.9212	28.9792	28.9762	29.0132	29.0192	29.0422	29.050	29.013												
	S D	.283	.291	.262	.239	.193	.189	.156	.167	.198	.239	.276	.282	.241												
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922												
	MEAN	29.1232	29.1012	29.0012	29.0262	28.9712	28.9252	28.9882	28.9852	29.0272	29.0332	29.0592	29.063	29.025												
	S D	.284	.294	.263	.243	.194	.188	.157	.170	.200	.239	.277	.280	.242												
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922												
1	MEAN	29.1282	29.1122	29.0052	29.0212	28.9582	28.9192	28.9812	28.9772	29.0162	29.0252	29.0602	29.066	29.022												
	S D	.288	.295	.261	.237	.190	.181	.156	.168	.201	.240	.275	.282	.242												
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922												
15	MEAN	29.0952	29.0802	28.9802	28.9922	28.9262	28.8962	28.9562	28.9472	28.9802	28.9872	29.0342	29.039	28.992												
	S D	.285	.290	.254	.229	.187	.175	.156	.165	.202	.239	.268	.280	.238												
	TOTAL OBS	248	226	248	240	247	240	248	248	240	248	240	248	2921												
14	MEAN	29.1082	29.0882	28.9812	28.9862	28.9122	28.8832	28.9412	28.9352	28.9762	28.9912	29.0512	29.054	28.992												
	S D	.283	.285	.244	.223	.185	.171	.152	.164	.198	.235	.259	.276	.237												
	TOTAL OBS	248	226	248	240	247	240	248	248	240	248	240	248	2921												
1	MEAN	29.1782	29.0922	28.9912	29.0032	28.9272	28.8972	28.9472	28.9502	28.9952	29.0002	29.0562	29.053	29.001												
	S D	.286	.282	.242	.223	.185	.168	.151	.163	.193	.239	.259	.278	.235												
	TOTAL OBS	248	226	248	240	247	240	248	248	240	248	240	248	2921												
ALL HOURS	MEAN	29.1142	29.0932	28.9912	29.0062	28.9432	28.9072	28.9642	28.9622	29.0012	29.0102	29.0492	29.054	29.007												
	S D	.284	.289	.254	.233	.189	.178	.155	.166	.198	.239	.268	.280	.239												
	TOTAL OBS	1984	1808	1984	1920	1981	1920	1984	1984	1920	1984	1920	1984	23373												

CLERICAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

1-14 HECTOR APT FARGO ND

73-81

STATION		STATION NAME												YEARS	
HRS (LST)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
C	MEAN	1021.2	1020.0	1016.1	1015.6	1012.9	1011.5	1013.0	1013.2	1014.8	1015.6	1017.7	1018.5	1015.8	
	S.D.	10.497	10.489	9.026	8.259	6.616	6.112	5.408	5.794	6.991	8.496	9.525	10.176	8.772	
	TOTAL OBS	243	226	248	240	248	240	248	248	240	248	240	248	2922	
1	MEAN	1021.2	1019.8	1015.6	1015.4	1013.0	1011.3	1012.9	1013.2	1014.9	1015.7	1017.5	1018.5	1015.7	
	S.D.	10.371	10.605	9.247	8.406	6.752	6.347	5.562	5.825	7.017	8.554	9.717	10.205	8.856	
	TOTAL OBS	243	226	248	240	248	240	248	248	240	248	240	248	2922	
2	MEAN	1021.0	1019.8	1015.6	1015.8	1013.5	1011.8	1013.6	1013.6	1015.3	1016.0	1017.5	1018.4	1016.0	
	S.D.	10.346	10.710	9.462	8.537	6.873	6.544	5.557	5.942	7.081	8.567	9.878	10.204	8.862	
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922	
3	MEAN	1021.6	1020.4	1016.3	1016.4	1013.9	1012.0	1014.0	1014.0	1015.9	1016.6	1018.2	1019.0	1016.5	
	S.D.	10.409	10.783	9.544	8.583	6.885	6.628	5.592	6.015	7.153	8.567	9.921	10.156	8.931	
	TOTAL OBS	248	226	248	240	248	240	248	248	240	248	240	248	2922	
12	MEAN	1021.6	1020.6	1016.3	1016.1	1013.4	1011.7	1013.7	1013.6	1015.3	1016.1	1018.1	1018.9	1016.3	
	S.D.	10.525	10.790	9.435	8.416	6.786	6.354	5.543	5.967	7.179	8.586	9.796	10.219	8.946	
	TOTAL OBS	243	226	248	240	248	240	248	248	240	248	240	248	2922	
15	MEAN	1020.4	1019.5	1015.4	1015.1	1012.3	1011.0	1012.9	1012.6	1014.1	1014.8	1017.3	1018.0	1015.3	
	S.D.	10.424	10.589	9.185	8.146	6.661	6.156	5.540	5.879	7.223	8.529	9.577	10.128	8.803	
	TOTAL OBS	248	226	248	240	247	240	248	248	240	248	240	248	2921	
17	MEAN	1020.9	1019.8	1015.5	1014.9	1011.7	1010.4	1012.3	1012.2	1014.0	1015.0	1017.8	1018.6	1015.2	
	S.D.	10.333	10.419	8.833	7.941	6.641	6.053	5.427	5.834	7.049	8.424	9.291	10.036	8.790	
	TOTAL OBS	243	226	248	240	247	240	248	248	240	248	240	248	2921	
1	MEAN	1021.0	1020.1	1016.0	1015.5	1012.3	1011.0	1012.6	1012.8	1014.8	1015.5	1018.1	1018.6	1015.7	
	S.D.	10.506	10.395	8.769	7.923	6.577	5.910	5.348	5.761	6.920	8.524	9.315	10.079	8.733	
	TOTAL OBS	248	226	248	240	247	240	248	248	240	248	240	248	2921	
ALL HOURS	MEAN	1021.1	1020.0	1015.9	1015.6	1012.9	1011.3	1013.1	1013.2	1014.9	1015.7	1017.8	1018.6	1015.8	
	S.D.	10.414	10.583	9.182	8.278	6.747	6.274	5.516	5.894	7.088	8.533	9.618	10.136	8.849	
	TOTAL OBS	1984	1808	1984	1920	1981	1920	1984	1984	1920	1984	1920	1984	23373	

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